ORDER NO. ITD0210031A3

Projection Television



TX-47P600HM / TX-47P600HQ / TX-47P600HZ / TX-47P600X

EURO-7VP

Please file and use this manual together with the service manual for Model No.TX-47P500H/X, Order No.ITD0203008C3.

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1. Difference point

1.1. Mechanical Replacement Parts List

Ref. No.	Part No.		Parts Name & Description	Remarl
	Model No.	Model No.		
	TX-47P500H/X	TX-47P600H/X		
15	TKGH5061	TKGH5072	SCREEN (FRESNEL)	
14	TKGH5060	TKGH5075	SCREEN (LENTICULAR)	
	TPCB20901	TPCB20907	CARTON BOX	TX-47P600HM
	TPCB20903	TPCB20909	CARTON BOX	TX-47P600HZ
	TPCB20904	TPCB20910	CARTON BOX	TX-47P600X
	TQBC0369	TQBC0515	INSTRUCTION BOOK (ENGLISH)	TX-47P600HM
	TQBC369	TQBC0532	INSTRUCTION BOOK (ENGLISH)	TX-47P600HQ
	TQBC0370	TQBC0516	INSTRUCTION BOOK (ARABIC)	TX-47P600X
32	TTPA0229	TTPA0279	ORNAMENT PANEL	TX-47P600HM
32	TTPA0230	TTPA0280	ORNAMENT PANEL	TX-47P600X
31	TTPA0211	TTPA0281	SPEAKER GRILLE	
30	TTPA0209	TTPA0291	CONTROL PANEL	
34	TTUA0512	TTUA0608	REAR COVER (BOTTOM)	TX-47P600HM
34	TTUA0513	TTUA0609	REAR COVER (BOTTOM)	TX-47P600HQ
34	TTUA0514	TTUA0611	REAR COVER (BOTTOM)	TX-47P600X
35	TTYA0479	TTYA0530	CABINET (TOP)	
36	TTYA0498	TTYA0548	CABINET (BOTTOM)	

1.2. Electrical Replacement Parts List

Ref. No.	Part No.		Parts Name & Description	Remarl
	Model No.	Model No.		
	TX-47P500H/X	TX-47P600H/X		
RTL	TZTNP020GFV	TZTNP010HSV	CIRCUIT BOARD A	
RTL	TXN/U10GFV	TZTNP020HSV	CIRCUIT BOARD U	
RTL	TZTNP010GHV	TZTNP10GHV	CIRCUIT BOARD D	TX-47P600HZ
RTL	TZTNP010GFV	TZTNP010GFV	CIRCUIT BOARD D	TX-47P600HM
RTL	TZTNP010GJV	TZTNP010GJV	CIRCUIT BOARD D	TX-47P600X
IC1102	TVRJ652	TVRJ812	ROM IC	
IC1104	TVRJ653	TVRJ813	ROM IC	

1.3. Specifications

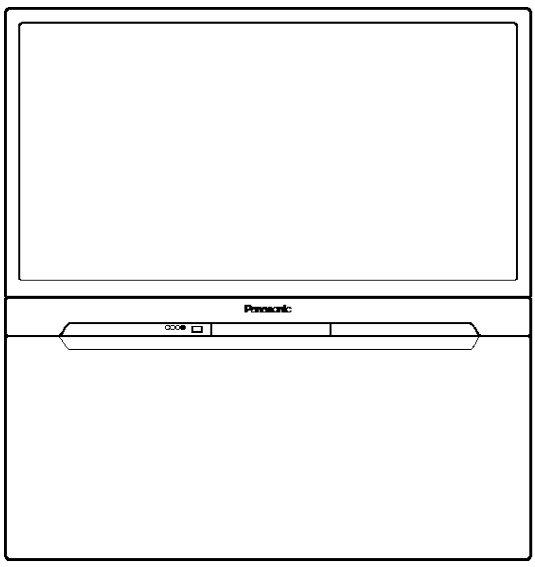
Dimensions (W×D×H)	1095mm × 540mm × 1190mm
Weight (Mass)	59kg

ORDER NO. ITD0203008C3

Projection Television

TX-47P500HM / TX-47P500HQ / TX-47P500HZ / TX-47P500X

EURO-7VPChassis



SPECIFICATIONS

Specifications

Power Source:

TX-47P500HM/HQ/HZ: AC220-240V, 50/60Hz

TX-47P500X: AC110-240V, 50/60Hz

Power Consumption:

TX-47P500HM/HQ/HZ: 218W

TX-47P500X: 228W

3.0W (Stand-by condition)

Remote control Transmitter:

EUR511229

R6 (AA) Battery ×2

Dimensions (W×H×D)

1095 mm × 1190 mm × 520 mm

Mass (Weight)

59 kg

Tuning System:

21 Systems

Frequency Synthesizer

Auto Search

100(Position)/125(Direct)

Receiving Channels:

VHF Band	**2-12**	**(PAL/ SECAM - B, K1)**
	0-12	**(PAL-B AUST.)**
	1-9	**(PAL-B N.Z.)**
	1-12	**(PAL/SECAM-D)**
	1-12	**(NTSC-M JAPAN)**
	2-13	**(NTSC-M U.S.A.)**
UHF Band	**21-69**	**(PAL-G, H, I)**
	21-69	**(SECAM-G, K, K1)**
	28-69	**(PAL-B AUST.)**
	13-57	**(PAL-D, K)**
	13-62	**(NTSC-M Japan)**
	14-69	**(NTSC-M U.S.A.)**
CATV	**S1-S20**	**(OSCAR)**
	S21-S41	**(HYPER)**
	1-125	**(U.S.A. CATV)**
	5A, 9A	**(AUST.)**
	Z1-Z37	**(CHINA)**
	C13-C49	**(JAPAN)**

Intermediate Frequency:

Video	**38.0 MHz**
Sound	**31.5 MHz (D, K)/32.0 MHz (I)**
	32.5 MHz (B, G)/33.5 MHz (M)
Colour	**33.57 MHz (PAL)/33.6 MHz (SECAM)**
	33.75 MHz (SECAM)/34.42 MHz (NTSC)

Receiving Stereo sound system:

NICAM B/G, NICAM I,

NICAM D, A2 (German)

Projection Tube:

TVVAB10GAV (B-ASSY)

TVVAG10GAV (G-ASSY)

TVVAR10GAV (R-ASSY)

TV/AR29CAV (R ASSY)

90° deflection

High Voltage:

31.5 ± 1.0 kV at zero beam current

Audio Output:

24 W [2-way, 4-speakers; 12 W+12 W] (10% THD)

Headphones:

3.5 mm Plug

Aerial Impedance:

75 Ω Unbalanced coaxial

Video/Audio Terminals:

AV1, 2, 3, 4 IN	**S-Video in**	**Y: 1.0 Vp-p 75 Ω**
		C: 0.3Vp-p 75 Ω
DVD (Y/PB /PR)	**Video in**	**1 Vp-p 75 Ω**
	Audio in	**Approx. 0.5V 47k Ω**
Monitor OUT	**Video out**	**1Vp-p 75 Ω**
	Audio out	**Approx. 0.5V 1k Ω**

Accessories Supplied:

Remote Controller x 1

"R6" Battery x 2

75 Ω coaxial aerial plug

Design and Specifications are subject to change without notice.
Mass and dimensions shown are approximate.

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1. Safety Precautions

1.1. General Guide Lines

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits.
   If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations, are properly installed.
4. When the receiver is not to be used for a long period of time, unplug the power cord from the AC outlet.
5. Potential, as high as 31.5kV , is present when this monitor is in operation. Operation of the Projection Monitor without the rear cover involves the danger of a shock hazard from the power supply. Servicing should not be attempted byanyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the projection tube to the Projection Monitor chassis before handling the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.2. Leakage Current Cold Check

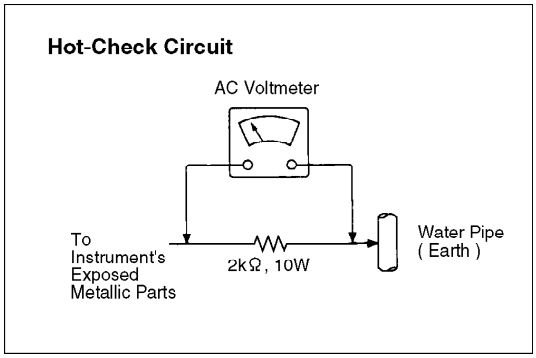
1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Turn on the Projection Monitor's power switch.
3. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the projection monitor, such as screw heads, connectors, control shafts, etc. When the exposed metallic part has a returnpath to the chassis, the reading should be between 4 M Ω and 20 M Ω . When the exposed metal does not have a return path to the

chassis, the reading must be∞.

1.3. Leakage Current Hot Check (See Fig. 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2kΩ, 10W resistor, in series with an exposed metallic part on the projection monitor and an earth such as a water pipe.
3. Use an AC voltmeter, with high impedance type, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.0V rms. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the projection monitor should be repaired and rechecked before it is returned to thecustomer.

Fig. 1



1.4. X-Radiation

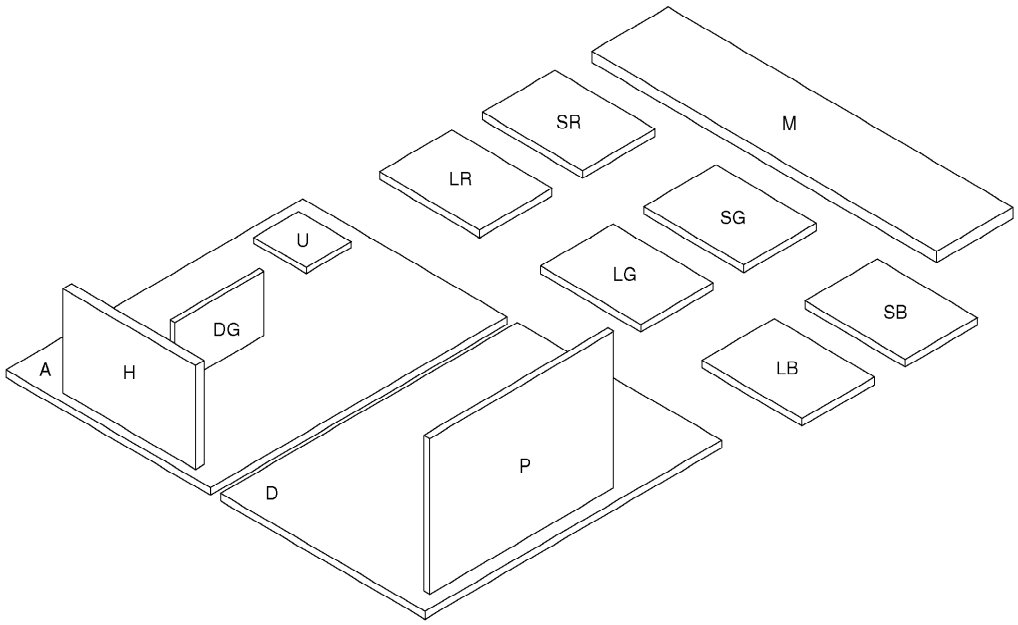
Warning :

1. The potential sources of X-Radiation in projection monitor are the High Voltage section and the projection tube.
2. When using a projection tube test jig for service, ensure that jig is capable of handling 31.5kV without causing X-Radiation.

Note:
It is important use an accurate periodically calibrated high voltage meter.

1. **Set the brightness to minimum.**
2. **Set the service switch to the service position.**
3. **Measure the High Voltage. The meter reading should indicate 31.5 ± 1.0 kV . If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.**
4. **To prevent an X-Radiation possibility, it is essential to use the specified projection tube.**

2. Chassis Board Layout

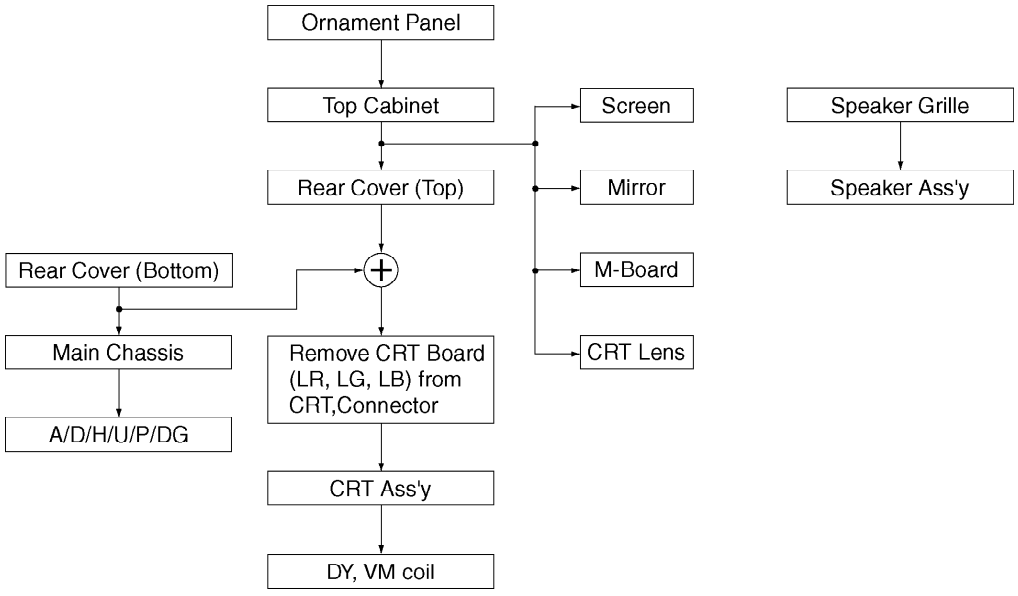


Board-Name	Function
A-Board	Main Signal, Digital Converter
P-Board	Line Filter
D-Board	Deflection, High Voltage
LR-Board	CRT Drive (R)
LG-Board	CRT Drive (G)
LB-Board	CRT Drive (B)
H-Board	Rear terminal
U-Board	MPU
M-Board	Front Terminal, Power Switch
DG-Board	Digital Core
SR-Board	VM Output (R)
SG-Board	VM Output (G)
SB-Board	VM Output (B)

3. Disassembly for Service

This flowchart indicates disassembly items of the cabinet parts and circuit boards in order to find the items necessary for servicing, when reassembling, perform the procedures in the reverse order.

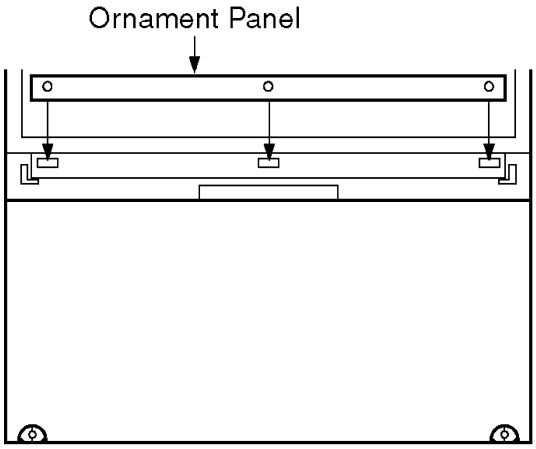
3.1. Disassembly Flowchart



Note:
Board ground wires may have to be disconnected to disassemble some boards. All ground wires must be reconnected using jumper leads if necessary before power is applied to Receiver for service.

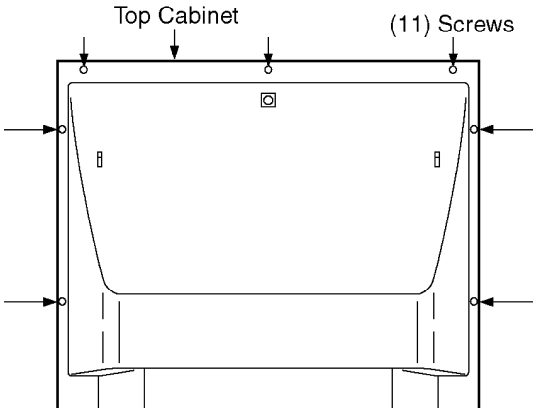
3.2. Ornament Panel

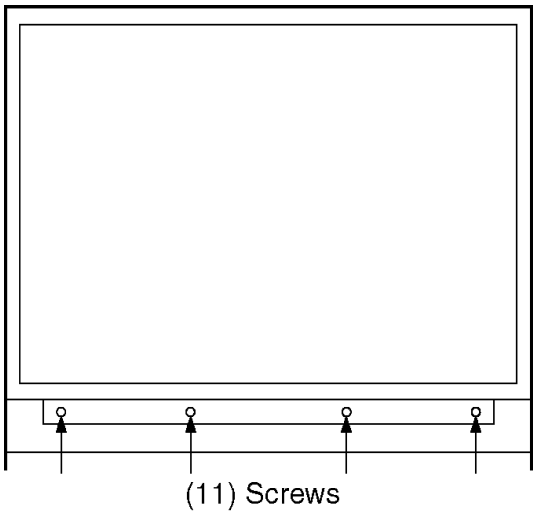
1. The Ornament Panel is secured by (3) striker pins. Grip the Ornament Panel at the side corner pull to remove.



3.3. Cabinet (Top)

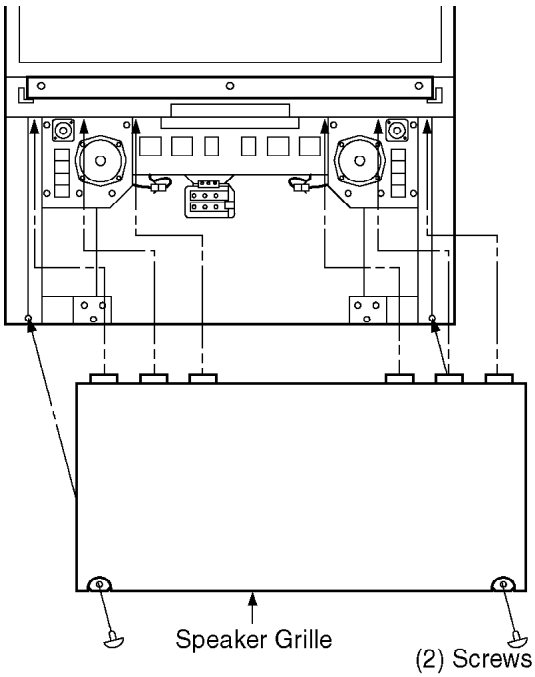
1. Remove (11) Screws.





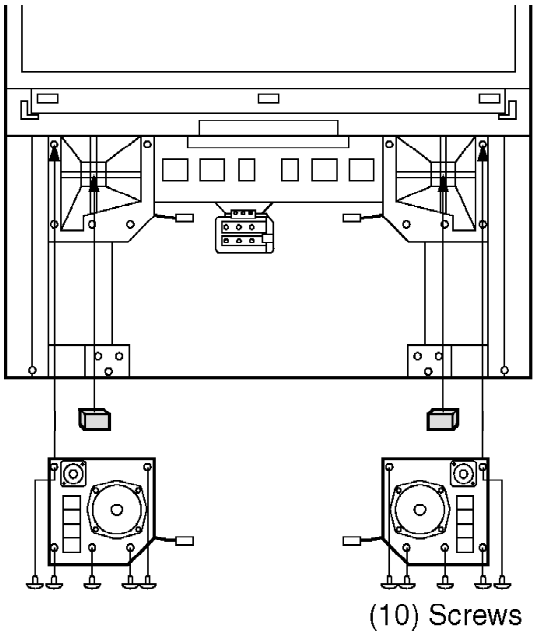
3.4. Speaker Grille

1. Remove (2) screws.



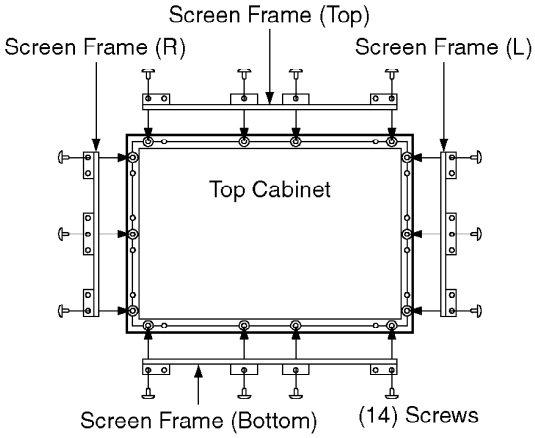
3.5. Speaker Ass'y

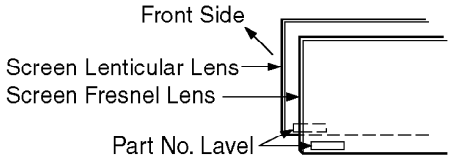
1. Remove (10) screws.



3.6. Screen

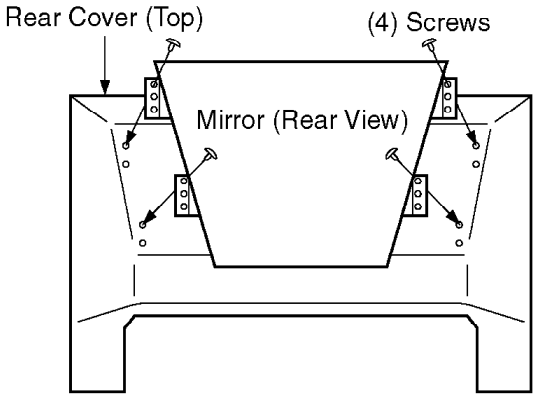
1. Remove (14) screws.



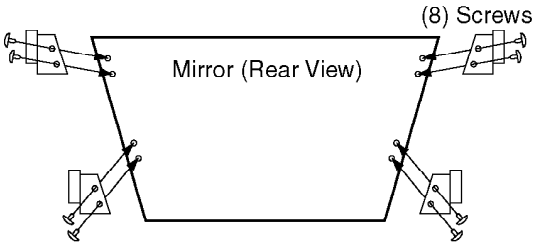


3.7. Mirror

1. Remove (4) screws.

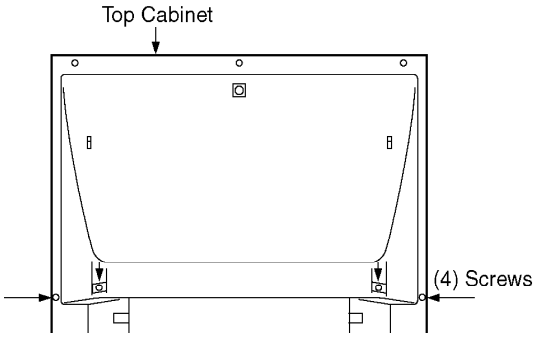


2. Remove (8) screws.

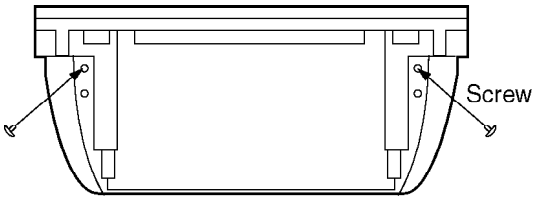


3.8. Rear Cover (Top)

1. Remove (4) screws.



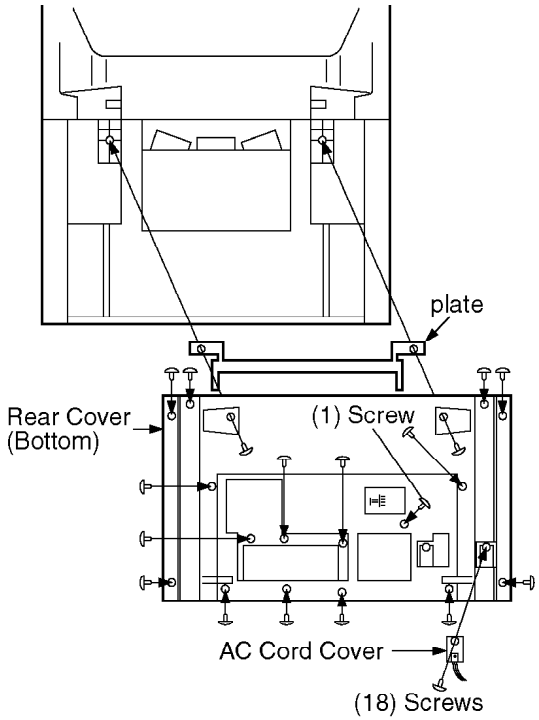
2. Remove (2) screws.



3.9. Rear Cover (Bottom)

1. Remove (18) screws.

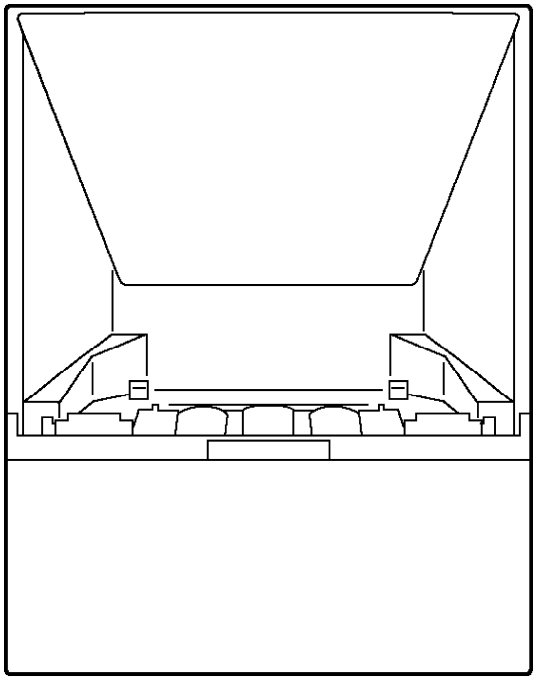
2. Remove (1) screws.



3.10. Disassembly For CRT Removal

To facilitate CRT replacement, the complete CRT mounting chassis does not need to be removed.

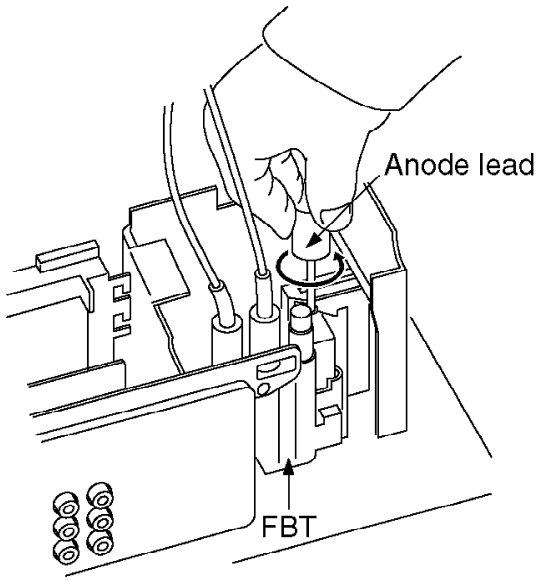
1. Remove the Screen Frame Ass'y, Decorative Panel and the Bottom Rear Cover Ass'y. (See Disassemble for Service).



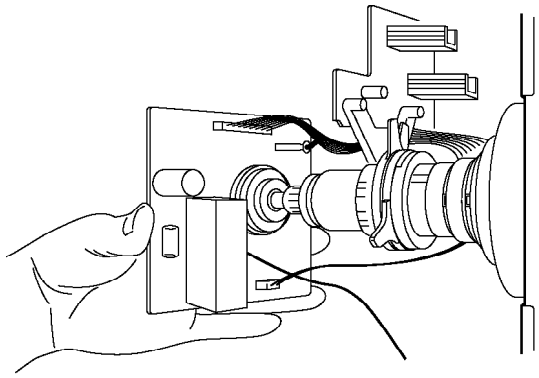
2. From the Rear side, remove the defective CRT's anode lead from the Flyback Transformer block that is mounted secured to the

Main chassis E-Board.

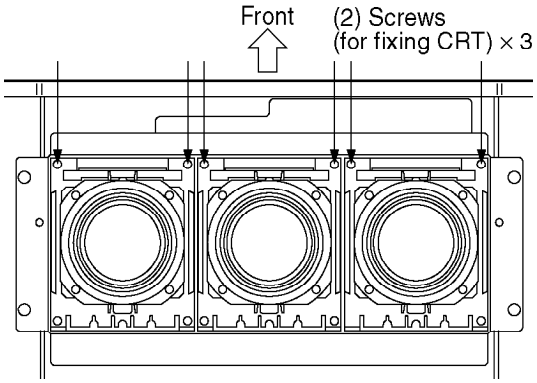
3. **Grasp the anode lead protective cap body inside, and rotate 1/4 turn counter clockwise and pull anode lead sleeve out of the distributor.**
4. **Discharge anode lead to CRT chassis metal frame.**



5. **Unplug the defective CRT Dag (GND), from the CRT Board, LBGND for LB, LGGND for LG, LRGND for LR.**
6. **Remove lead wires (DY, VM coil) and anode lead wire from holders as necessary.**
7. **Remove the CRT Board from the defective CRT neck.**



8. **Note position of yoke with centering tabs and remove from defective CRT.**
9. **From the Top, remove (2) screws from the defective CRT.**



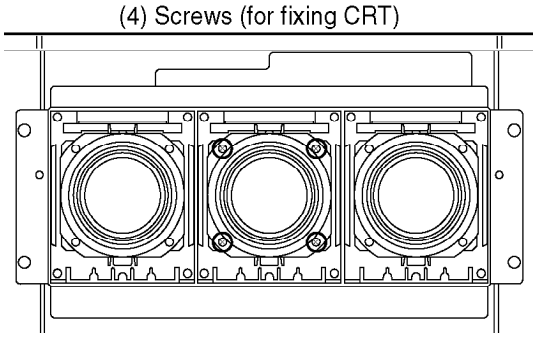
10. Release CRT anode lead from CRT chassis wire clamp and all other wires from holders.

11. Wire the anode lead wire.

12. Lift out CRT assembly with lens assembly and other CRT neck assemblies.

13. Lay CRT face down on a soft cloth.

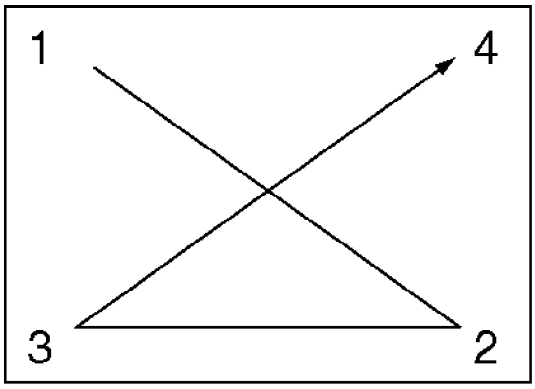
14. Remove CRT lens by removing (4) screws.



15. Install yoke and VM coil with other CRT neck assemblies on CRT neck in the same order and position as removed from the defective CRT.

16. Push yoke against bell of CRT and tighten the clamp just snug enough so it will not easily shift.

17. Assemble CRT focus lens assembly to new CRT with (4) screws. Make sure focus lens adjustment nut is in the same location as on other CRT focus lens.

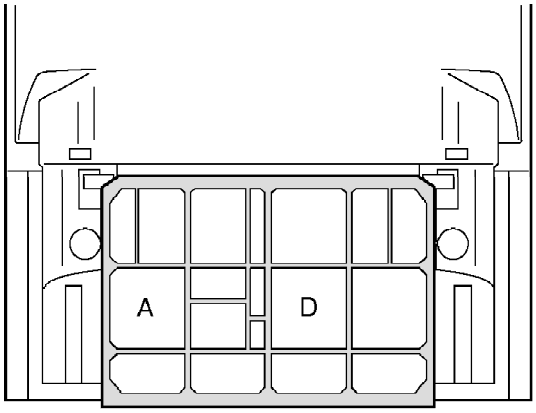


Note:
Please assemble with screws in the order shown in detail and tighten with same torque.

4. Service Hints

4.1. Service position for Main chassis

1. **Remove the Rear Cover (Bottom) by removing (19) screws around its perimeter.**
2. **Remove lead wires and bundles from holders as necessary.**
3. **Pull out main chassis and stand it.**

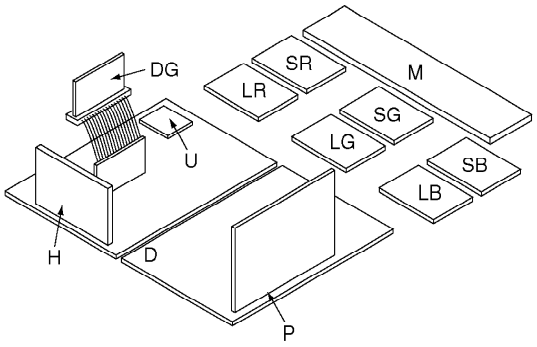


Main chasisis

4.2. Service Position for DG-Board

1. **Remove the each circuit board from A or D-Board.**
2. **Connect extension cables between individual circuit board and A or D-Board.**

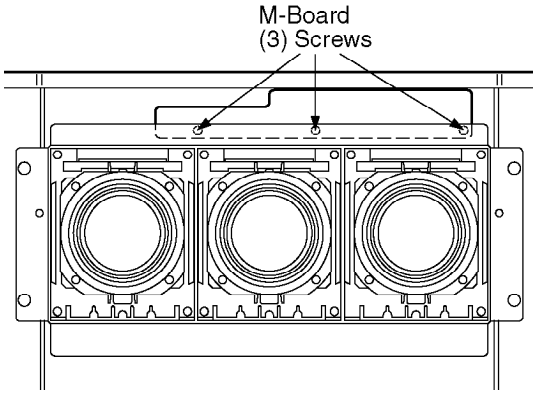
Note:
Extension cable kit is supplied as service fixtures and tools. (Part No. TZSC0724)



4.3. Service Position for M-Board

1. Remove the Top Cabinet Ass'y.

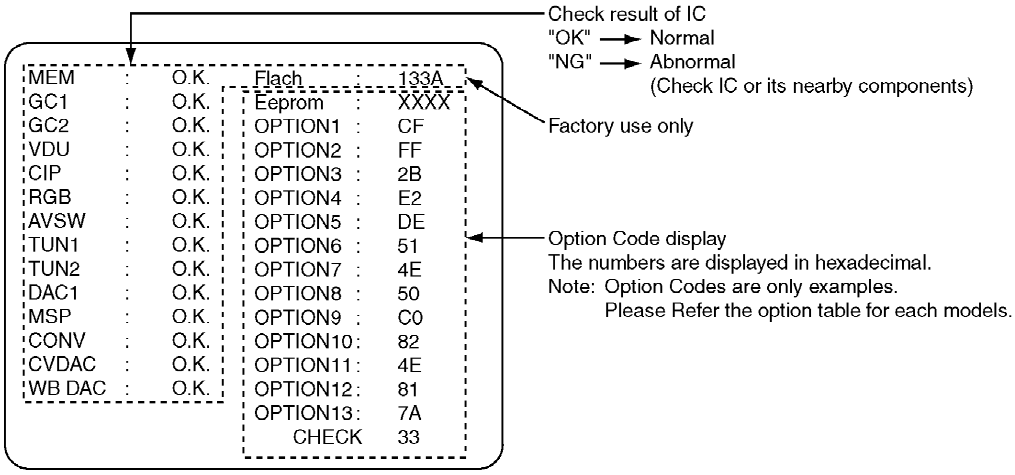
2. Remove M-Board by removing (3) screws.



5. Self Check

1. Self-Check is used to automatically check the bus lines and hexadecimal code of the TV set.

2. To get into the Self -Check mode press the down (−/∨) button on the customer controls at the front of the set, at the same time pressing the HELP button on the remote control, and thescreen will show :



If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "O.K.".

Display	Ref. No.	Description	P.C.B.
MEM	IC1104	Memory	A-Board
GC1	IC1301	Global core IC Main	DG-Board
GC2	IC1304	Global core IC Sub	DG-Board
VDU	IC1305	Video Processor	DG-Board
CIP	IC1303	CIP	DG-Board
RGB	IC1315	RGB Processor	A-Board
AVSW	IC3001	AV SW	A-Board
TUN1	TNR001	Tuner Main	A-Board
TUN2	TNR002	Tuner Sub	A-Board
DAC1	IC1253	DAC control	A-Board
MSP	IC2001	Stereo Decoder	A-Board
CONV	IC7107	CONVERGENCE	A-Board
CVDAC	IC7121	Conv. DAC	A-Board
WB DAC	IC7702	WB DAC Control	A-Board

6. Service Mode Function

MPU controls the functions switching for each IICs through IIC bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Mode.

6.1. How to enter SERVICE 1

1. In sound menu, set BASS to MAX, and set TREBLE to MINIMUM.

2. Simultaneously press INDEX button on remote control and VOLUME DOWN button [-] on the TV set.

6.2. How to enter SERVICE 2

1. Set the channel to CH99.

2. Press HOLD button on remote control.

Note:

To exit to Service mode, press N or Power button on remote control.

SERVICE 1

Function	Average Data	Function	Average Data
H-Pos	86	Sub SECAM B-Y	187
V-Pos	97	Sub SECAM R-Y	72
H-Amp	57	Video Gain 2	145
V-Amp	184	DAF-H-PARA	287
Parabola	38	DAF V-SAW	9
Trapezoid	124	DAF V-PARA	28
H-Parallel	8	Coarse Convergence	Access
V-Linear	34	Fine Convergence	Access
Top-Corner	20		
Bottom-Corner	21		
V-S-Correct	10		
C-Correct	3		
G-LIMIT	135		
B-LIMIT	130		
WB-B-G-ST1	109		
R High(Drive)	0138		
G High(Drive)	0128		
B High(Drive)	0128		
R Low(Cut off)	0627		
G Low(Cut off)	0640		
B Low(Cut off)	0697		
Sub-Bright	28		
RF AGC 1	17		
Sub-Contrast	58		
Sub-Colour	65		
Sub-NTSC Tint	-1		
SECAM B-Y	189		
SECAM R-Y	68		
RF AGC 2	19		
Sub-NTSC Tint2	4		
SPL. Gain	0		

- Press the RED/GREEN button to step up/down thrpugh the functions.
- Press the YELLOW/BLUE button to change the function values.
- Press the STR button after each adjustment has been mode to store the required values.

①Set the Aspect mode 16:9.
a. Receive PAL signal and adjust each item.
b. Next. reveice NTSC signal and adjust each time.

②Set the Aspect mode 4:3.
a. Receive PAL signal and confirm the picture.
Adjust each item if necessary.
b. Next, receive NTSC signal and confirm the picture.
Adjust each item if necessary.

CH99 + HOLD button

CH99 + INDEX button

SERVICE 2

Function		Function	
Y/C Delay	11	OPTION 8	50
OPTION 1	CF	OPTION 9	C0
OPTION 2	FF	OPTION 10	82
OPTION 3	2B	OPTION 11	4E
OPTION 4	E2	OPTION 12	81
OPTION 5	DE	OPTION 13	7A
OPTION 6	51	Hours	
OPTION 7	4E		

6.3. Option Descrition

Options		HM HZ	X	HQ		ASIA
option1		CF	CF	CF		
0E0	b0	1	1	1	Colour system	Auto(1)
	b1	1	1	1		SECAM(1)
	b2	1	1	1		NTSC(1)
	b3	1	1	1		M.NTSC(1)
	b4	0	0	0	TV NTSC 50	Reserved
	b5	0	0	0	TV SECAM 60	Reserved
	b6	1	1	1	AV NTSC 50	Reserved
	b7	1	1	1	AV SECAM 60	Reserved
option2		FF	FF	FF		
0E1	b0	1	1	1	CH Plan	ASIA / M.E. / HK / UK / CHINA(1)
	b1	1	1	1		NZ/INDNES(1)
	b2	1	1	1		AUSTRALIA(1)
	b3	1	1	1		E.EUROPE(1)
	b4	1	1	1		SPECIAL(1)
	b5	1	1	1		AMERICA(1)
	b6	1	1	1		CATV(1)
	b7	1	1	1		JAPAN(1)
option3		2B	2B	2B		
0E2	b0	1	1	1	sub picture	without sub-picture(0), with sub-picture(1)
	b1	1	1	1	2tuner	2tuner(1), 1tuner(0)
	b2	0	0	0	VGA	enable(1)
	b3	1	1	1	YUV	enable(1)
	b4	0	0	0	CRT	16:9(1), 4:3(0) (change multi window / aspect operation)
	b5	1	1	1	HYPER	UHF only (0), UHF/VHF (1)
	b6	0	0	0	SIF	4.5 / 5.5 / 6.0 / 6.5(0), 5.5 / 6.0 / 6.5(1)
	b7	0	0	0		5.5 / 6.5(2), 6.0 / 6.5(3)
option4		E2	E2	E2		
0E3	b0	0	0	0	A2 enable	4.5(1)
	b1	1	1	1		5.5(1)
	b2	0	0	0		6.0(1)
	b3	0	0	0		6.5(1)
	b4	0	0	0	NICAM enable	4.5(1)
	b5	1	1	1		5.5(1)
	b6	1	1	1		6.0(1)
	b7	1	1	1		6.5(1)
option5		DE	DE	DE		
0E4	b0	0	0	0	A2 select 6.5MHz	5.742MHz(0) 6.742MHz(1)
	b1	1	1	1	NICAM priority	ASIA / M.E.(1)
	b2	1	1	1		HK / UK(1)
	b3	1	1	1		CHINA(1)
	b4	1	1	1		NZ / INDN(1)
	b5	0	0	0		AUSTRA(1)
	b6	1	1	1		E.EURO(1)
	b7	1	1	1		SPECIAL(1)

Options		HM HZ	X	HQ		ASIA
option6		51	51	D1		
0E5	b0	1	1	1	VCR/GAME in search	On(0) Off(1)
	b1	0	0	0	SASO enable	SASO enable(1)
	b2	0	0	0	Noise mute	Noise mute enable(0)
	b3	0	0	0	Monitor out AV1 mute	Monitor out AV1 mute(1)
	b4	1	1	1	AV SW 3/2AV out	CXA2069Q(1) CXA2079Q(0)
	b5	0	0	0	Tuner	MACO tuner(0), ALPS tuner(1)
	b6	1	1	1	Child lock	Child lock enable(1)
	b7	0	0	1	No motion control	No motion cotrol in film mode(1)
option7		4E	4E	4E		
0E6	b0	0	0	0	Power up EC-Mode	Power on EC enable (1)
	b1	1	1	1	CH Blanking	Blanking enable(1)
	b2	1	1	1	AV Blanking	Blanking enable(1)
	b3	1	1	1	Auto WIDE	WSS enable only in aspect Auto (0), WSS always enable (1)
	b4	0	0	0	Volume correction	TV Volume correction enable(1)
	b5	0	0	0	AVLink	Q-Link on/off selectable in menu(1)
	b6	1	1	1	MPX/NICAM display	Display NICAM(0), Display MPX(1)
	b7	0	0	0	free	
option8		50	50	D0		
0E7	b0	0	0	0	Teletext CH Refrech	enable (1)
	b1	0	0	0	Geomagnetic Sensor	Geomagnetic sensor enable(1)
	b2	0	0	0	Geomagnetic Polarity	Geomagnetic polarity +(0), -(1)
	b3	0	0	0	attenuater menu	Enable (1)
	b4	1	1	1	Fine tuning	Enable(1)
	b5	0	0	0	Search speed	Slow(1) Fast(0)
	b6	1	1	1	TEXT FLOF	Reserved
	b7	0	0	1	TEXT TOP	TOP enable(1)
option9		C0	C0	C0		
0E8	b0	0	0	0	Dolby	Dolby enable (1)
	b1	0	0	0	3D Subwoofer	Subwoofer enable(1) Dolby model should be 0.
	b2	0	0	0	Optical 2 inputs	Optical 1 input(0), 2 inputs(1)
	b3	0	0	0	free	
	b4	0	0	0	free	
	b5	0	0	0	SL SR PHASE	NON REVERSE(0), REVERSE(1)
	b6	1	1	1	Volume curve	Volume curve1(0), curve2(1)
	b7	1	1	1	Volume EXDAC	Add Volume control by EXDAC(1)
option10		88	82	88		
0E9	b0	0	0	0	free	
	b1	0	1	0	OSD language	Arabic enable(1)
	b2	0	0	0	Russian enable(1)	
	b3	1	0	1	Chinese enable(1)	
	b4	0	0	0	Blue Back	enable(0)
	b5	0	0	0	BC Safety	Reserved
	b6	0	0	0	Protect XPR	Reserved
	b7	1	1	1	Protect 5V detect	Protection input enable(1)

Options Model		HM HZ	X	HQ		ASIA
option11		4E	4E	4E		
0EA	b0	0	0	0	Shop mode	Max contrast(1), Normal(0)
	b1	1	1	1	DDM/Dynamic display	Reserved
	b2	1	1	1	Sub Headphone	enable(1)
	b3	1	1	1	Scan mode Blanking	Blanking enable(1)
	b4	0	0	0	User aspect 14:9	enable(1)
	b5	0	0	0	NICAM C4 bit	enable(1)
	b6	1	1	1	ID-1	enable(1)
	b7	0	0	0	1080I	enable(1)
option12		81	81	83	Area Option	
0EB	b0	1	1	1	Asia	Asia(1), europe(0)
	b1	0	0	1	Australia	Australia(1)
	b2	0	0	0	Ireland	not use
	b3	0	0	0	UK	not use
	b4	0	0	0	MELCOA	MELCOA(1)
	b5	0	0	0	28 inch	28 inch(1) when only Large size=0, Wide=1, PTV=0
	b6	0	0	0	LED	52(1) / 42(0) for PTV, 36(1) / 32(0) for Wide, 34(1) / 29(0) for 4:3
	b7	1	1	1	PTV	PTV(1)
option13		7A	7A	7A	Temporary	
0EC	b0	0	0	0	VDU Version	A21(0), A12(1)
	b1	1	1	1	GC Version	ES5(0), ES6(1)
	b2	0	0	0	UV Swap	Swap(1)
	b3	1	1	1	TEXT	Enable(1)
	b4	1	1	1	Main GC ES7	ES7(1), ES5/6(0)
	b5	1	1	1	Sub GC ES7	ES7(1), ES5/6(0)
	b6	1	1	1	Picture Shift	ON(1), OFF(0)
	b7	0	0	0	CIP2	without CIP1(0), with CIP1(1)

7. CRT Set Up

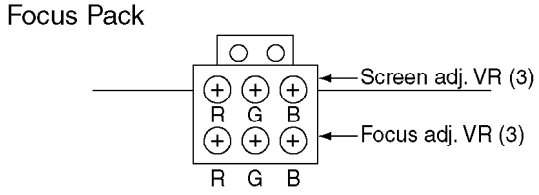
Caution:

Insure yoke plugs on the A-Board are reconnected before turning the Receiver ON to prevent damage to the horizontal output transistor and/or CRTs.

7.1. Dynamic Focus Adjustment

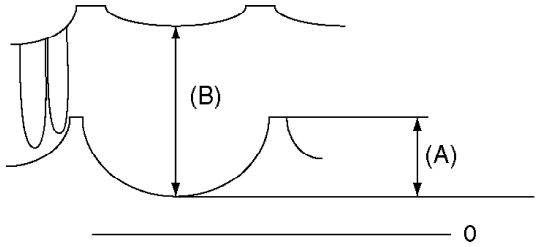
1. **Focus adjustments should be performed after 1 hour of aging.**
2. **Use oscilloscope with 100 : 1 probe.**
3. **Apply monoscope pattern.**
4. **Adjust the Red, Blue and Green focus VR on the focus block for best focus of overall picture of each CRT. (Fig. 2)**

Fig. 2



5. Connect the scope probe to TPD20, GND to TPD21. Scope set at 20V/div & 5m sec./div.
6. Adjust V-PARA (Service mode1) so that waveform (A) is 380V ± 20V. (Fig. 3)
7. Adjust H-PARA (Service mode1) so that waveform (B) is 560V ± 40V. (Fig. 3)

Fig. 3



8. Proceed with Focus Adjustments.

7.2. Electrical Focus Adjustment

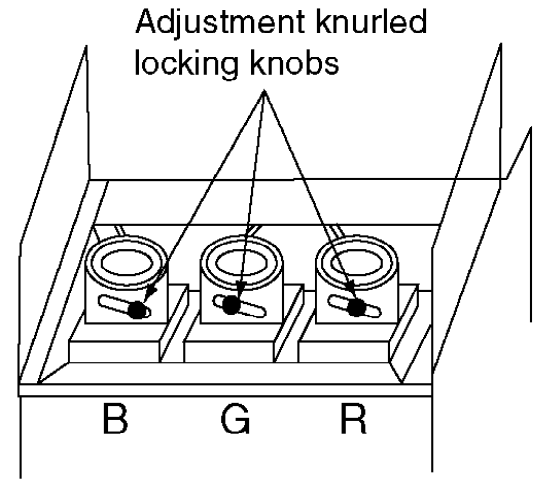
1. Receive a monoscope pattern.
2. Cover the Red and Blue CRT, projecting Green only.
   The electrical focus controls are located on the front. Adjust the Green Focus VR for best focus of overall picture. (Fig. 2)
3. Repeat for Red focus VR while projecting Red only.
4. Repeat for Blue. (Best focus at bottom left corner of screen)

7.3. Optical Lens Focus Adjustment

Note:
This adjustment normally should not require resetting unless the lens has been replaced or adjustment has changed.

1. Optical focus adjustment is located on the top of each CRT lens system. Loosen the adjustment knurls locking knob. (Fig. 4)

Fig. 4 (Rear view)



Optical lens focus adjustment

2. **Turn the Receiver ON apply and view a monoscope pattern.**
3. **Adjust each lens focus for best focus while viewing each CRT.**
4. **Cover the Red and Blue CRT, projecting green only.Rotate the Green lens for best focus around screen center area.**
5. **Do the same for the Red focus lens while projecting Red only.**
6. **Repeat for Blue.**

7.4. Centering Magnet Adjustment

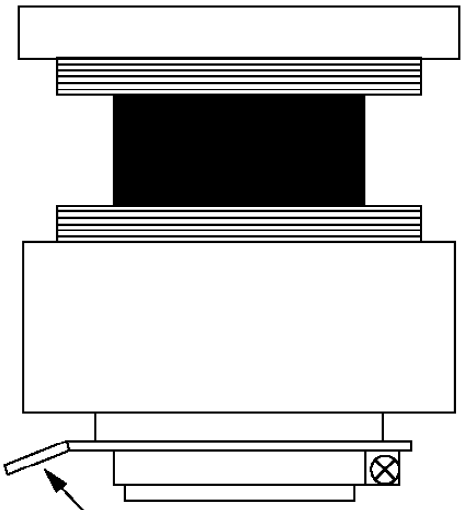
1. **Receive a monoscope pattern.**
2. **Confirm that Coarse convergence data (Service mode1) for R,G and B is 0.**
3. **Set that Fine convergence data (Service mode1) is clear (no correction).**
4. **Set that V-Pos data (Service mode1) is [100].**
5. **Set that H-Pos data (Service mode1) is [55].**
6. **Set that H-Parallel data (Service mode1) is [8].**

Procedure:

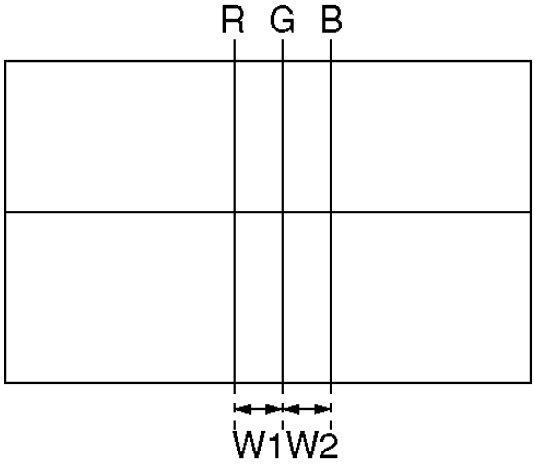
1. **Cover the Red, Blue CRT lens, projecting Green only.**
2. **Adjust green centering magnet (DY) if the projected green horizontal/vertical line does not line up with the screen horizontal/ vertical center line.**
3. **Cover the Green, Red CRT lens, projecting Blue only.**

4. **Repeat step 2. for blue.**
5. **Cover the Green, Blue CRT lens, projecting Red only.**
6. **Repeat step 2. for red.**
7. **Cover the Red, Blue CRT lens, projecting Green only.**
8. **Adjust green centering magnets until the center of the monoscope pattern line up with the screen center line.**
9. **Cover the Green, Red CRT lens, projecting Blue only.**
10. **Adjust blue centering magnets to position the center of the blue raster W2 away from the center of the green raster.**
11. **Cover the Green, Blue CRT lens, projecting Red only.**
12. **Adjust red centering magnets to position the center of the red raster W1 away from the center of the green raster.**

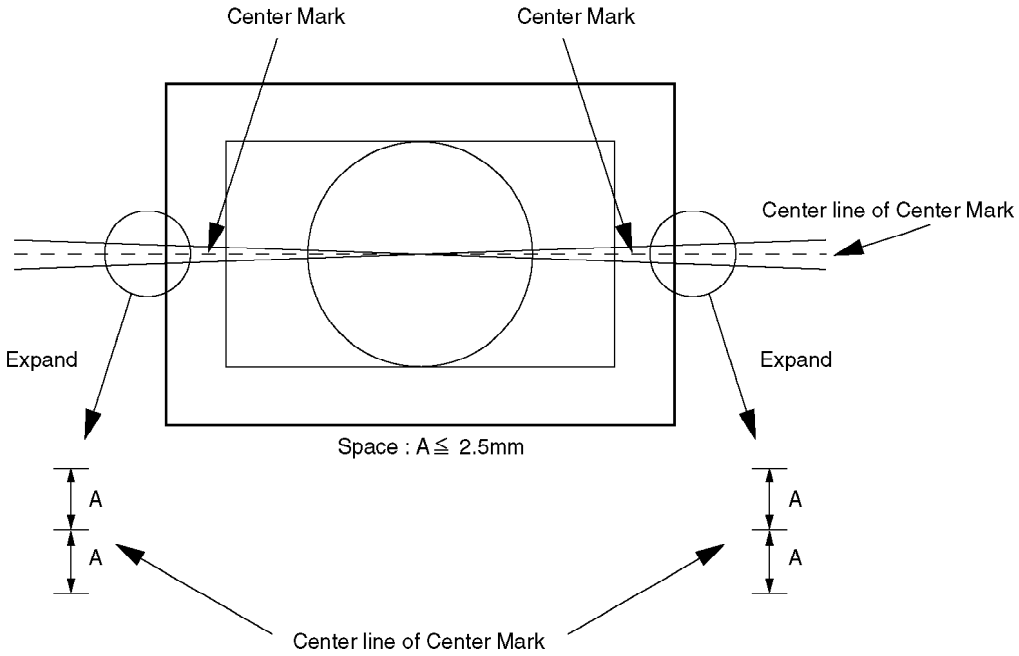
DY



Centering magnet



W1=17.5mm ± 2.5mm
W2=40.0mm ± 2.5mm

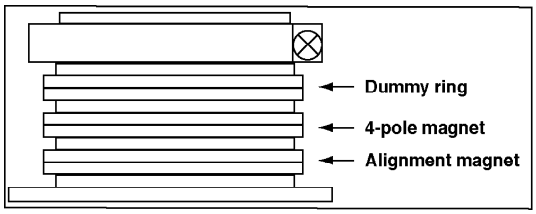


7.5. Alignment magnet Adjustment

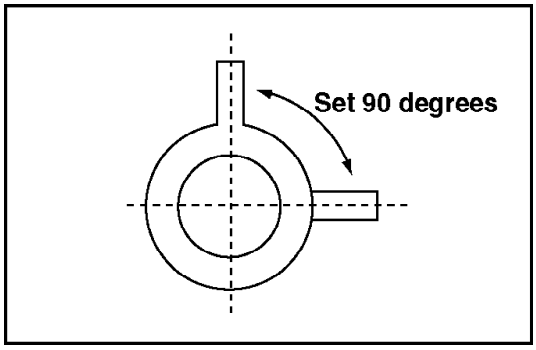
Preparation:

1. **Receive an cross hatch pattern with dots (pincushion).**
2. **Loosen the centering magnets screws.**
3. **Position the longer tab of the four-pole magnet to 90 degrees (uncorrected position).**

VM Coil with focus correction magnet

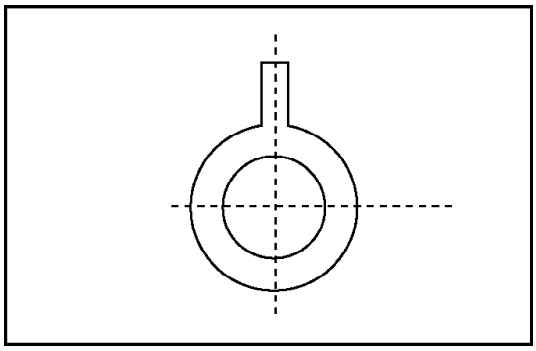


4-pole magnet



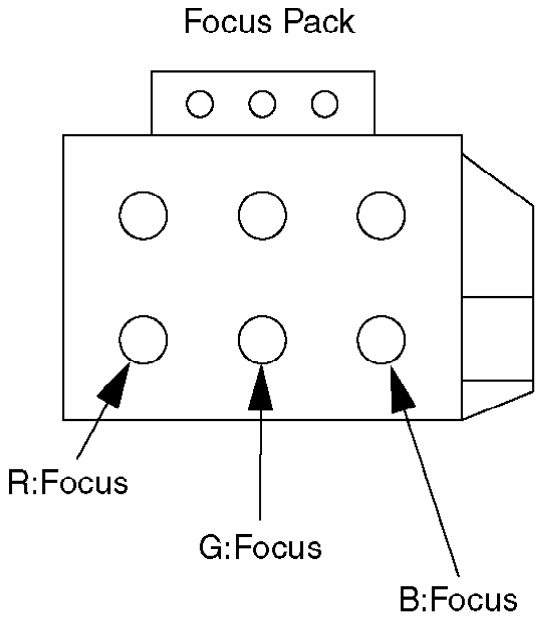
4. **Position the long tab of all alignment magnets and of the dummy ring together in an uncorrected position.**

Alignment magnet (or dummy ring)



Procedure:

1. **Receive an cross hatch pattern with dots.**
2. **Cover the Red, Blue CRT lens, projecting Green only.**
3. **Turn the green electrical focus adjustment VR (on focus pack) fully counterclockwise and note the position of the dots at the center of the picture.**
4. **Turn the green electrical focus adjustment VR fully clockwise.**
5. **Adjust the four pole magnets until the shape of the dot at the center of the screen is circular.**
6. **Adjust for best green electrical focus with green electrical focus adjustment VR.**
7. **Cover the Green, Red CRT lens, projecting Blue only.**
8. **Repeat step 4. ~ step 6. for blue electrical focus.**
9. **Cover the Green, Blue CRT lens, projecting Red only.**
10. **Repeat step 4. ~ step 6. for red electrical focus.**

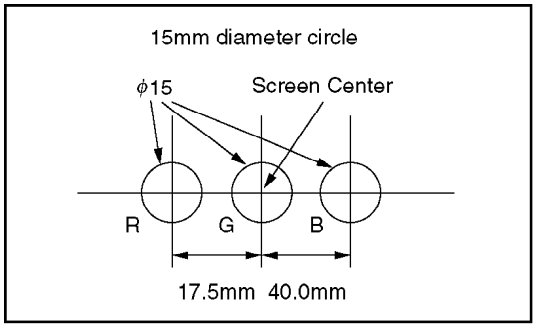


11. Receive an monoscope pattern.

12. Cover the Red, Blue CRT lens, projecting Green only.

13. If the center of the monoscope pattern is not inside the 15mm circle, shown in below, adjust the centering magnets. Repeat the alignment magnet adjustments and four pole magnet adjustments (step 1. ~ step 6.)

Centering magnet adjustment



14. Cover the Green, Blue CRT lens, projecting Red only.

15. Repeat step 13. for the red.

16. Cover the Green, Red CRT lens, projecting Blue only.

17. Repeat step 13. for the blue.

18. Following adjustments, fix the centering magnets of DY, dummy rings of VM coil, four pole magnets of VM coil and the alignment magnets of VM coil to prevent them from moving.

8. Deflection Adjustment

Caution

1. **The following adjustment have to be carried out one with PAL signal (100i/50p) and with NTSC signal (60p/120i) .**
2. **Deflection adjustment need to set the Coarse/Fine Convergence to Zero Correction some time.**
3. **Before Deflection Adjustment are attempted, CRT Set up, Electrical Focus and Optical Lens Focus adjustment must be completed.**

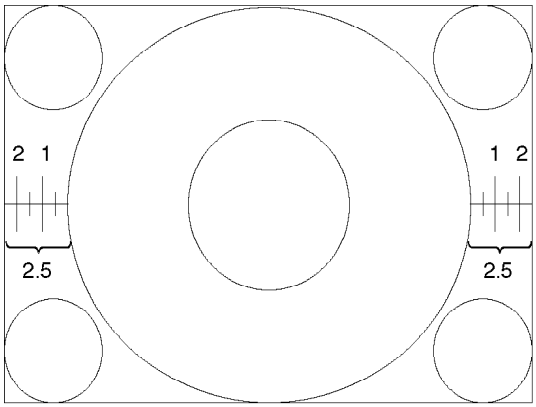
8.1. PAL 100Hz mode (100i)

8.1.1. Preparation

1. **Receive PAL monoscope pattern.**
2. **Set scan mode to 100Hz.**
3. **Set the Picture Menu to NORMAL.**
4. **Set the TV to Service Mode 1.**
5. **Set Aspoct to “1619”.**
6. **Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.**
7. **Push [HELP] button so that projecting Green only.**

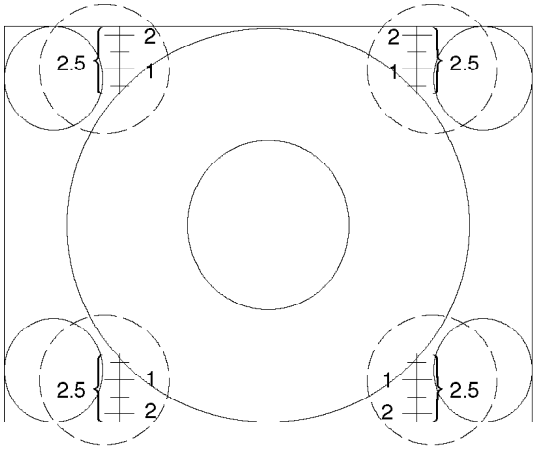
8.1.2. H-Pos and H-Amp Adjustment

1. **Adjust Monoscope pattern for center of the screen by H-Pos control.**
2. **Adjust Horizontal amplitude for 2.5 ±0.1 division of a scale by H-Amp control.**

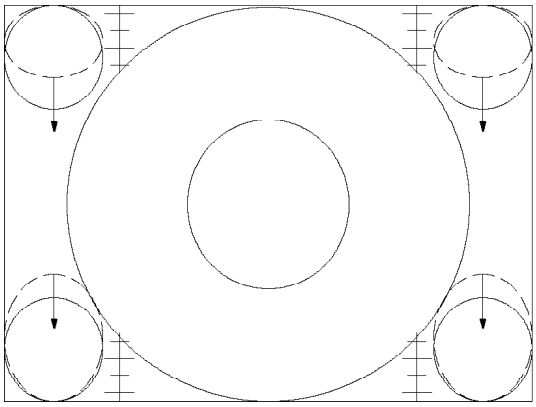


8.1.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.5 ± 0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center , if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.1.4. Parabola and Trapezoid Adjustment

1. Receive PAL cross hatch pattern.
2. Adjust the vertical line to straight line by Parabola control.
3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

8.2. PAL Progressive mode (50p)

8.2.1. Preparation

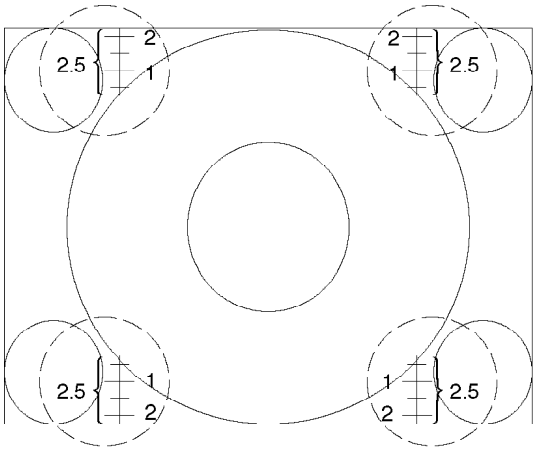
1. Receive PAL monoscope pattern.
2. Copy the Data of PAL 100Hz mode (100i) to PAL Progressive mode (50p)
3. Set scan mode to progressive.
4. Set the Picture Menu to NORMAL.
5. Set the TV to Service Mode 1.
6. Set the Data of Service Mode 1 as follow

H-Parallel	7	Bottom-Corner	21
V-Linear	36	V-S-Correct	10
Top-Corner	21	C-Correct	4

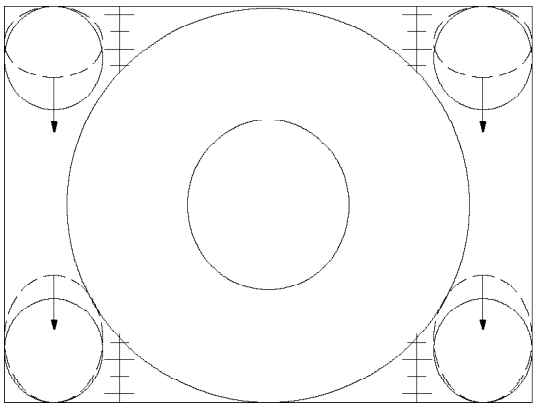
7. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
8. Push [HELP] button so that projecting Green only.

8.2.2. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.5 ± 0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.3. NTSC Progressive mode (60p)

8.3.1. Preparation

1. Receive NTSC monoscope pattern.

2. Set scan mode to Progressive.

3. Set the Picture Menu to NORMAL.

4. Set the TV to Service Mode 1.

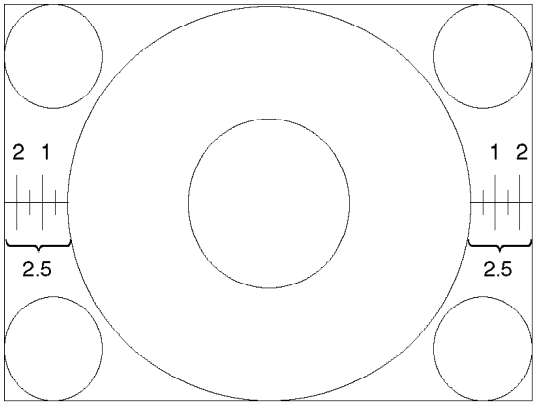
5. Set the Data of Service Mode 1 as follow

H-Parallel	7	Bottom-Corner	21
V-Linear	35	V-S-Correct	10
Top-Corner	20	C-Correct	4

6. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
7. Push [HELP] button so that projecting Green only.

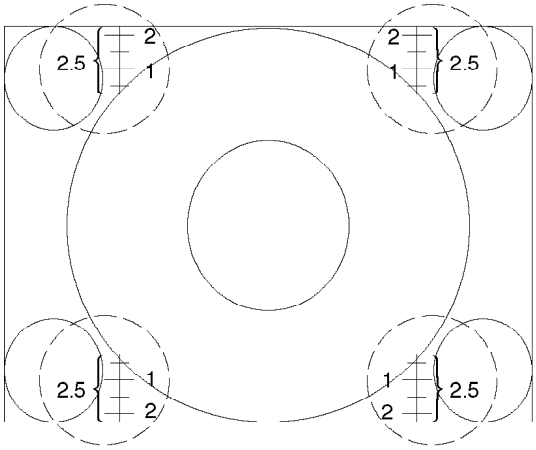
8.3.2. H-Pos and H-Amp Adjustment

1. Adjust Monoscope pattern for center of the screen by H-Pos control.
2. Adjust Horizontal amplitude for 2.5 ± 0.1 division of a scale by H-Amp control.

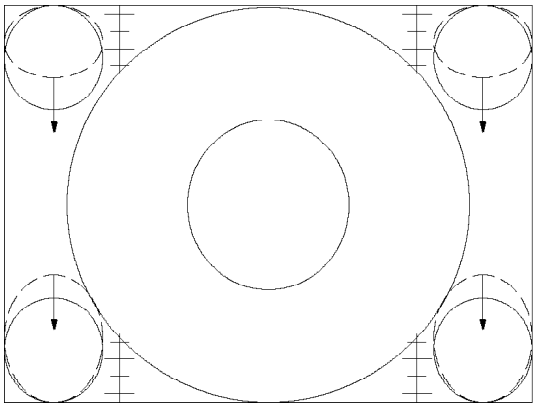


8.3.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.5 ± 0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.3.4. Parabola and Trapezoid Adjustment

1. Receive NTSC cross hatch pattern.
2. Adjust the vertical line to straight line by Parabola control.
3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

8.4. NTSC 120Hz mode (120i)

8.4.1. Preparation

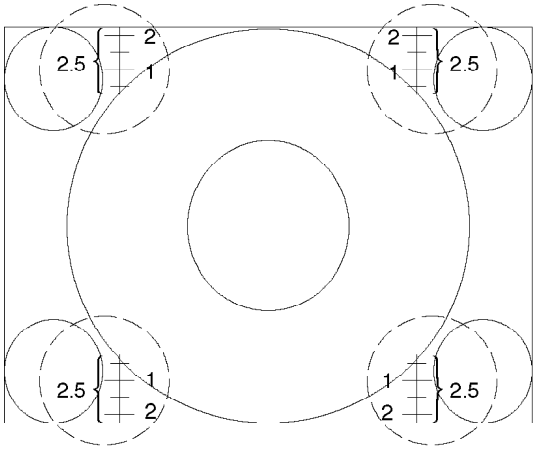
1. Receive PAL monoscope pattern.
2. Copy the Data of to NTSC Progressive mode (60p) to NTSC 120Hz mode (120i).
3. Set the Picture Menu to NORMAL.
4. Set scan mode to 120Hz.
5. Set the TV to Service Mode 1.
6. Set the Data of Service Mode 1 as follow

H-Parallel	8	Bottom-Corner	21
V-Linear	30	V-S-Correct	10
Top-Corner	20	C-Correct	4

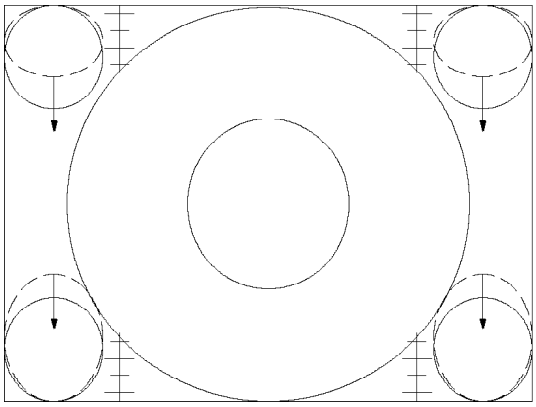
7. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
8. Push [HELP] button so that projecting Green only.

8.4.2. V-Amp, V-Linear and V-Pos Adjustment

1. **Adjust Vertical amplitude for 2.5 ±0.1 division of a scale by V-Amp control.**



2. **Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.**



3. **Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.**

8.5. 525p Deflection Adjustment / Confirmation

8.5.1. V / H-Deflection confirmation

1. **Receive 525p signal.**
2. **Confirm V / H-Deflection is normal.**

8.5.2. H-Pos confirmation / Adjustment

1. **Receive 525p signal.**
2. **Confirm H-Pos and if need, adjust H-Pos.**

8.6. 625p Deflection Adjustment / Confirmation

8.6.1. V / H-Deflection confirmation

1. Receive 625p signal.
2. Confirm V / H-Deflection is normal

8.6.2. H-Pos confirmation / Adjustment

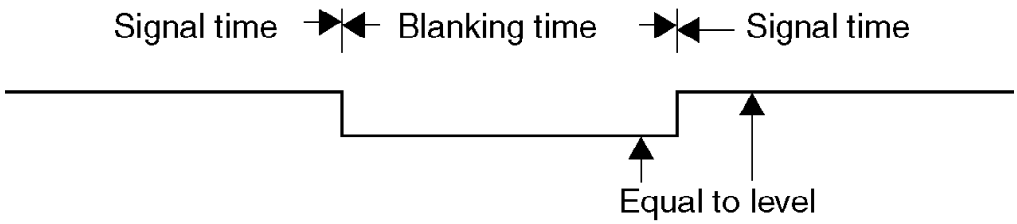
1. Receive 625p signal.
2. Confirm H-Pos and if need, adjust H-Pos.

9. Adjustment Procedure

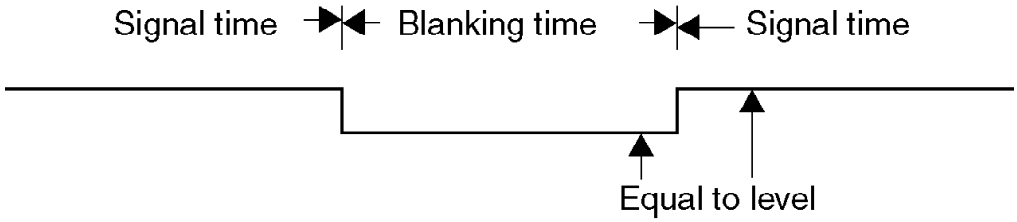
9.1. SECAM Black Level Adjustment

Preparation
Picture Menu: Dynamic
AI: ON
Adjustment

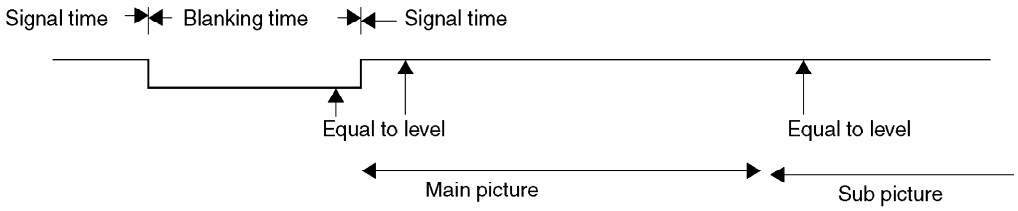
1. Receive SECAM white pattern.
2. Connect an oscilloscope to A44 pin 39(B-Y OUT) on A-Board.
3. Adjust SECAM B-Y so that H-blanking time and colour center are equal level.



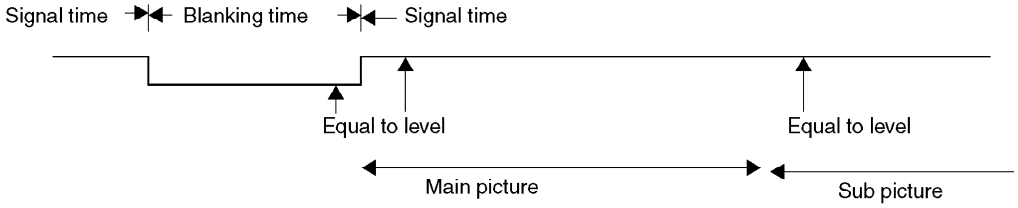
4. Connect an oscilloscope to A44 pin 41(R-Y OUT) on A-Board.
5. Adjust SECAM R-Y so that H-blanking time and colour center are equal level.



6. Connect an oscilloscope to A44 pin 39(B-Y OUT) on A-Board.
7. Adjust Sub SECAM B-Y so that H-blanking time and colour center are equal level.



8. Connect an oscilloscope to A44 pin 41(R-Y OUT) on A-Board.
9. Adjust Sub SECAM R-Y so that H-blanking time and colour center are equal level.



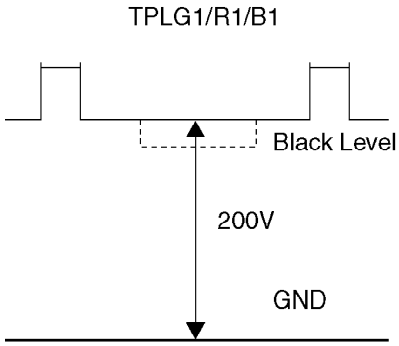
9.2. Cut off Adjustment

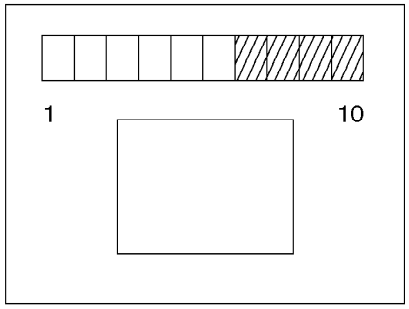
Preparation
Picture Menu : Dynamic WB-B-G-ST1 : 255
C Temp : Standard High-RGB : 128
AI : ON Low-RGB : 640
P-NR : ON Cut off : A8
Scan Mode : 100Hz (PAL) G-Limit : 255
Screen VR : Full Counterclockwise B-Limit : 255
Adjustment

1. Receive a Black Level pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Adjust Sub Bright so that the waveform A is 200 ± 2V.
4. Connect an oscilloscope to TPLR1 on LR-Board.
5. Adjust Low-R so that the waveform A is 200 ± 2V.
6. Connect an oscilloscope to TPLB1 on LB-Board.
7. Adjust Low-B so that the waveform A is 200 ± 2V.
8. It pushes and it makes a [HELP] key the project only of GREEN.
9. The 6th paragraph shines faintly with the screen VR of GREEN and the 7th paragraph does to the sinking style.
10. It pushes and it makes a [HELP] key the project only of RED.
11. The paragraph shines faintly with the screen VR of RED and the 7th paragraph does to the sinking style.

12. It pushes and it makes a [HELP] key the project only of BLUE.

13. The 6th paragraph shines faintly with the screen VR of BLUE and the 7th paragraph does to the sinking style.

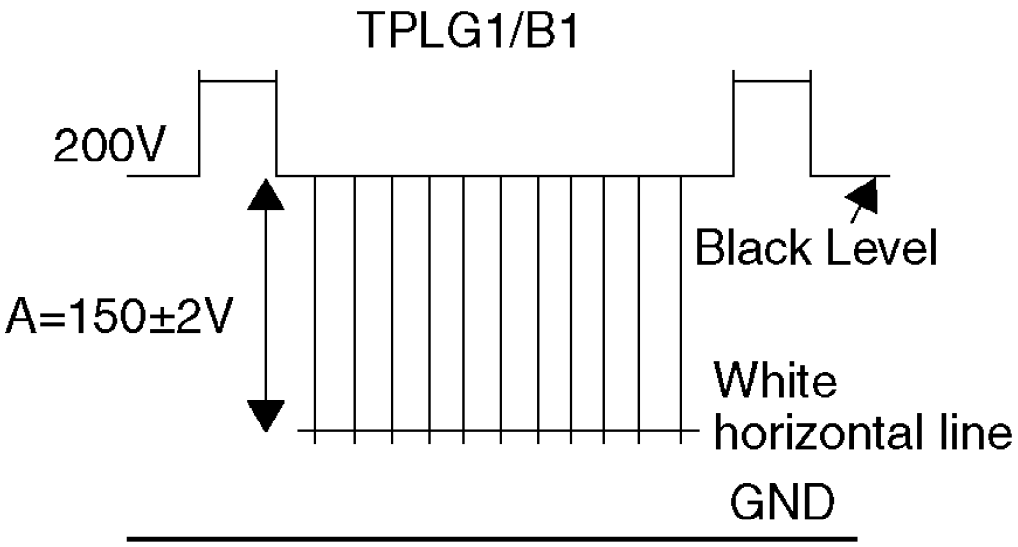




9.3. Sub Contrast / G-Limit Adjustment

Preparation
Picture Menu : Dynamic WB-B-G-ST1 : 255
C Temp : Standard High-RGB : 128
AI : ON Low-RGB : 640
P-NR : ON G-Limit : 255
Scan Mode : 100Hz (PAL)
Cut off Adjustment has been adjusted
Adjustment

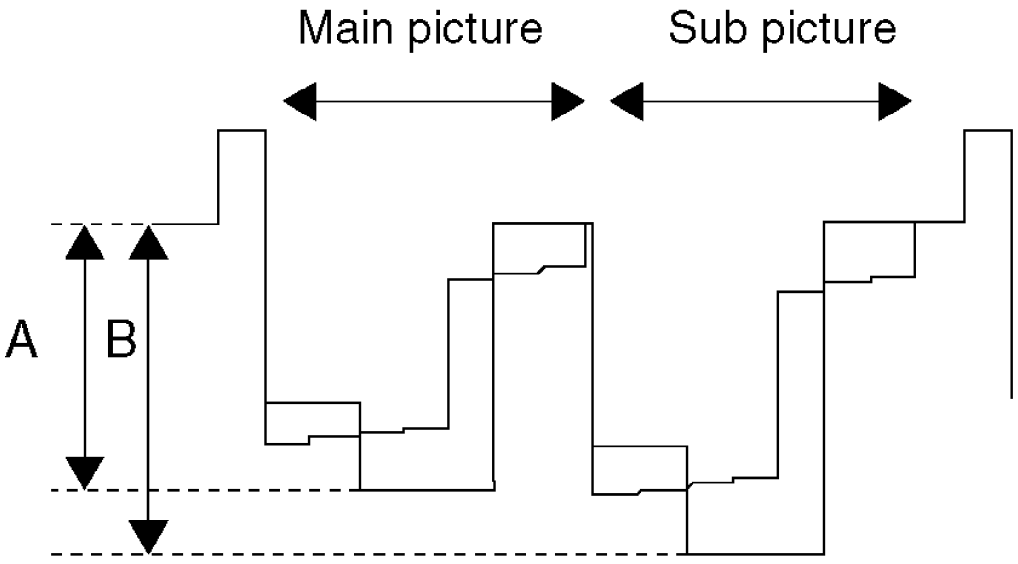
1. Receive a Cross Hatch pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Adjust Sub Contrast so that the waveform A is 150 ± 2V.
4. Before G-Limit Adjustment is attempted, Sub Contrast adjustment must be completed.
5. Adjust G-Limit so that the waveform A is 125 ± 2V.



9.4. Sub Picture Contrast Adjustment

Preparation
Picture Menu : Dynamic
AI : ON
Adjustment

1. **Receive a Colour Bar pattern.**
2. **Connect an oscilloscope to TPLG1 on LG-Board.**
3. **Increment / Decrement Video gain2 to adjust Sub-Video level B as same as Main video level A.**



9.5. NTSC Tint Adjustment

Preparation
Picture Menu : Dynamic P-NR : ON
C Temp : Standard Scan Mode : 100Hz (PAL)
AI : ON

Adjustment

1. **Receive a Rainbow (NTSC 3.58Hz) pattern.**
2. **Connect an oscilloscope to TPLR1 on LR-Board.**
3. **Adjust Sub NTSC Tint so that the peak of level of waveform is similar to Fig. A.**

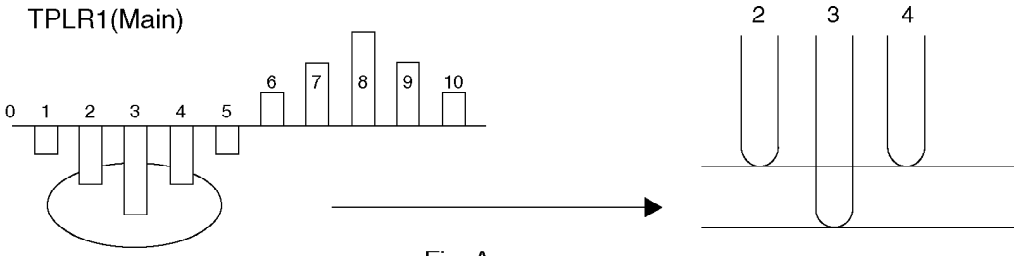


Fig. A

4. **Receive a Rainbow (NTSC 3.58Hz) pattern on both of Main and Sub picture.**
5. **Adjust Sub NTSC Tint 2 so that the peak of level of waveform is similar to Fig. B.**

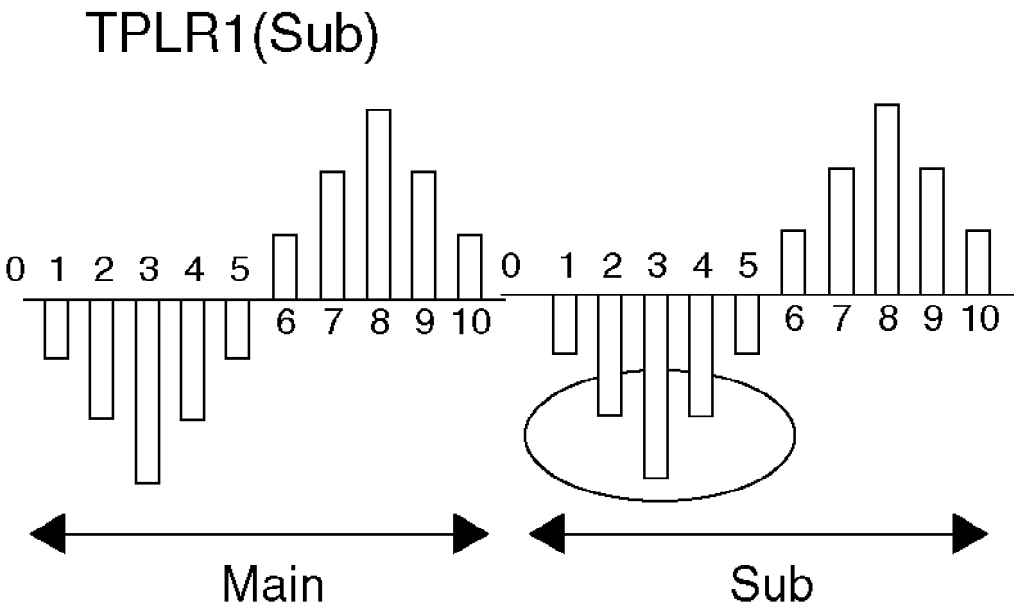
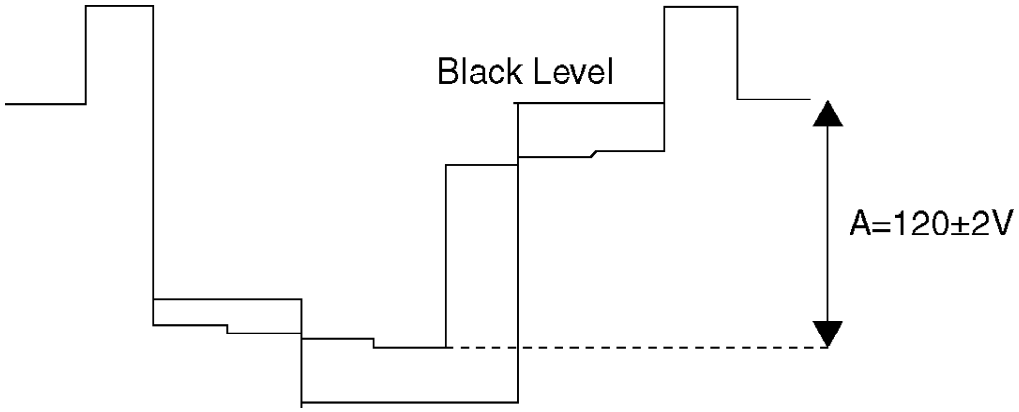


Fig. B

9.6. Sub Color Adjustment

Preparation
Picture Menu : Dynamic P-NR : ON
C Temp : Standard Scan Mode : 100Hz (PAL)
AI : ON ACL : OFF
Adjustment

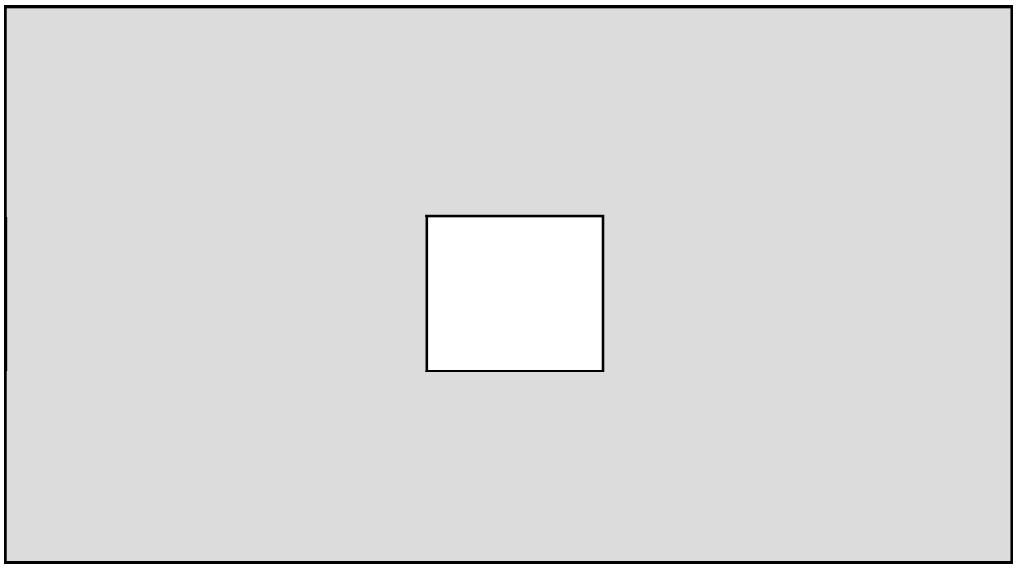
1. Receive a PAL Colour Bar pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Adjust Sub Color so that the waveform A is 120 ± 2V.



9.7. Blue Focus / Gamma Adjustment

Preparation
Picture Menu : Dynamic WB-B-G-ST1 : 0
C Temp : Standard B-Limit : 255
AI : ON
P-NR : ON
Scan Mode : 100Hz (PAL)
Adjustment

1. Set the White Balance Meter on Screen center.
2. Receive a Window pattern.
3. Set the Sub Contrast and High-B to Max.
4. It pushes and it makes a [HELP] key the project only of BLUE.
5. Adjust Blue Focus VR so that Y is 4.0 ± cd/m$_2$



9.8. White Balance Adjustment

Preparation
Picture Menu : Dynamic Sub Bright : 60
C Temp : Dynamic High R : 90
AI : ON High G : 128
P-NR : ON High B : 90
Scan Mode : 100Hz (PAL) WB-B-G-ST1 : 130
Low G : 640
Adjustment

1. **Set the White Balance Meter on Screen center.**
2. **Receive a Window pattern.**
3. **Adjust Sub Bright so that the 6th paragraph shines faintly and the 7th paragraph does to the sinking style.**
4. **Adjust High R, WB-B-G-ST1, High B, Low R, and Low B to the table value.**

Mode	Bright (cd/m^2)	Controle DAC name		Target (x) (y)	C. Temp (K)	MPCD
		RED	BLUE			
Hi	80	High R	WB–B–G–ST1	0.270 ± 0.005 0.244 ± 0.005	13000 ± 500	–5 ± 5
Mid	20	– – –	High B	0.277 0.244 ± 0.005	11500 ± 500	–20 ± 5
Low	1.8	Low R	Low B	0.287 ± 0.008 0.240 ± 0.008	9200 ± 500	–25 ± 5

9.9. Sub Bright Adjustment

Preparation
Picture Menu : Dynamic P-NR : ON
C Temp : Dynamic Scan Mode : 100Hz (PAL)

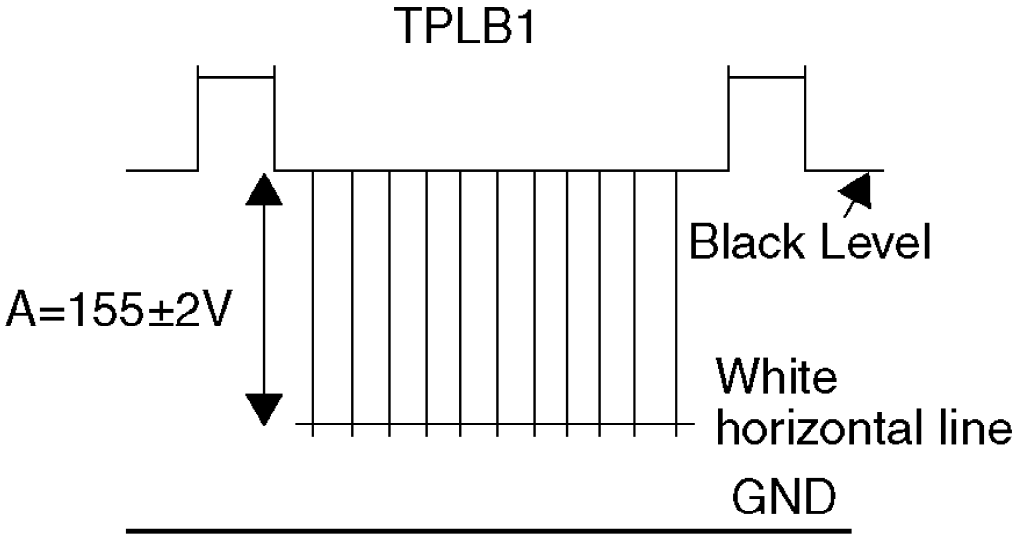
AI : ON
Cut off and White Balance Adjustment has been adjusted
Adjustment

1. **Set the White Balance Meter on Screen center.**
2. **Receive a PAL Window pattern.**
3. **Adjust Sub Bright so that the 7th paragraph shines faintly and the 8th paragraph does to the sinking style.**

9.10. Blue Limit Adjustment

Preparation
Picture Menu : Dynamic
C Temp : Standard
AI : ON
P-NR : ON
Scan Mode : 100Hz (PAL)
White Balance Adjustment has been adjusted
Adjustment

1. **Receive a Cross Hatch pattern.**
2. **Connect an oscilloscope to TPLB1 on LB-Board.**
3. **Adjust B-LIMIT so that the waveform A is 155 ± 2V.**



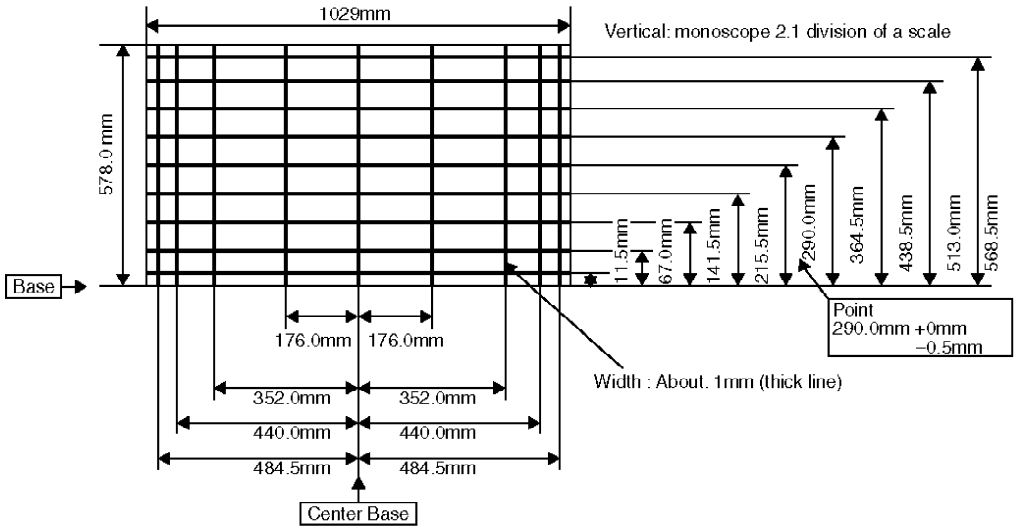
10. Convergence Adjustment

The convergence adjustment is set separately for each 50/100Hz/ 60/100Hz input (NTSC, PAL/ SECAM). The following explanation uses the PAL mode as an example, since the same procedure applies to the convergence adjustmentfor NTSC mode.
When replacing the following Parts.
IC7101 (EEP-ROM in Digital Convergence Circuit)L551 (Pincushion Coil)High Voltage Producing PartsOther Parts (If change the convergence)
Create an Adjustment Sheet by tracing the following specifications in their actual size on

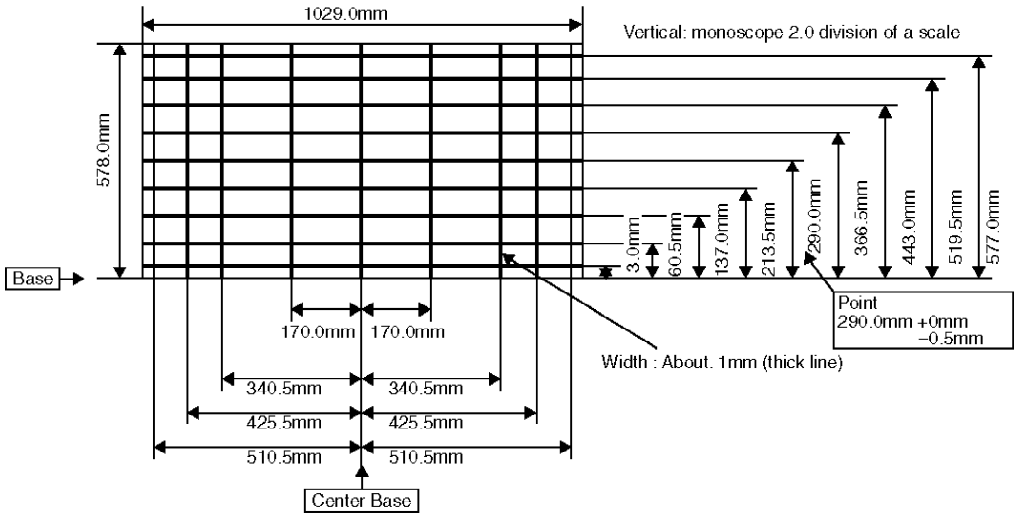
transparent film or tracing paper.Then adjust the convergence.
When replacing one of the CRT's.
Adjust the convergence for each of the 50/100Hz and 60/120Hz inputs so that they are aligned with the other colours.
Helpful Hint
All positions which have been adjusted are recorded within P-2 for NTSC data and P-3 for PAL data of the memory.This data can be copied to P-4 memory area, allowing you to perform the adjustment of P-2 (NTSC) and P-3 (PAL).To perform these adjustments,push the SEARCH button on the remote control, and manipulate the position [▲] and [▼] button and the "N" button as instructedby the On Screen Display in Fine Convergence adjustment.
All of the Convergence Control Charts have been listed for the remote control buttons after the Convergence Adjustment Procedure Please refer to these.(Page 29 and 30)

10.1. Convergence Adjutment Sheet

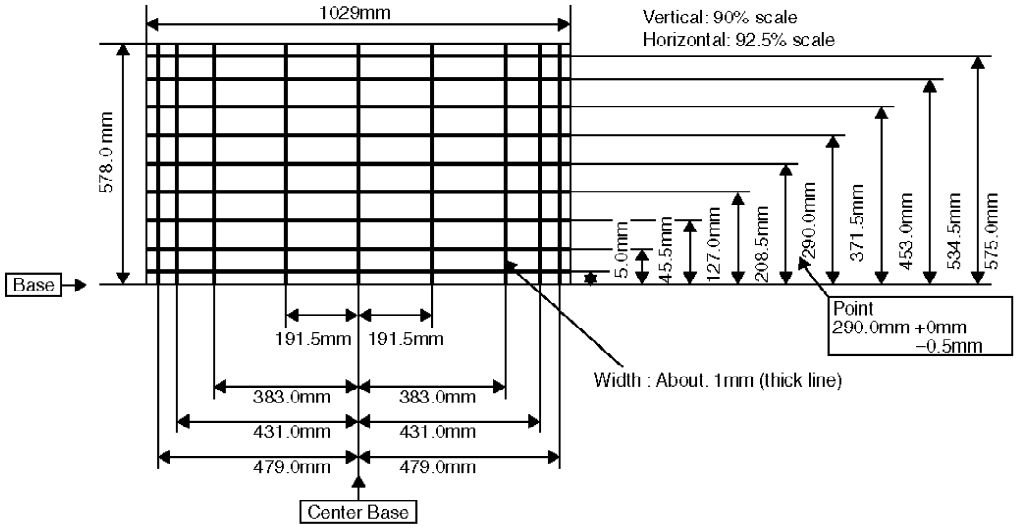
1. PAL (100i & 50p)



2. NTSC (120i & 60p)

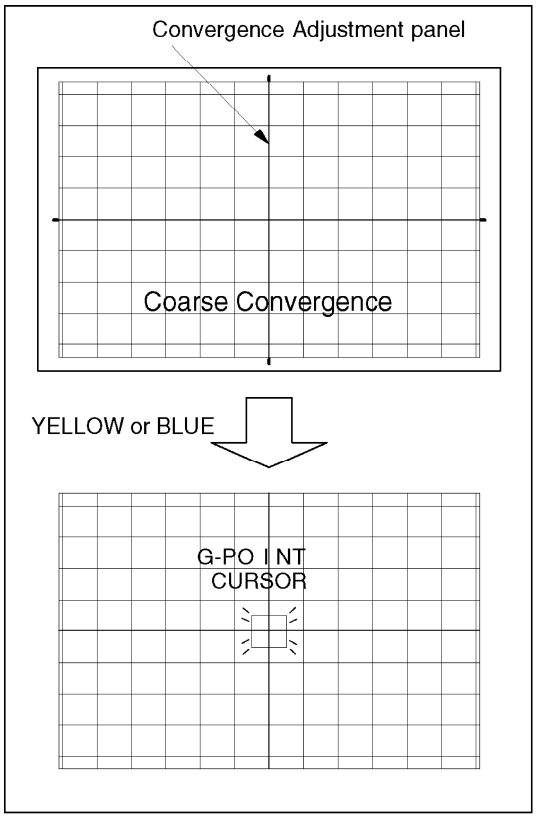


3. 1080i

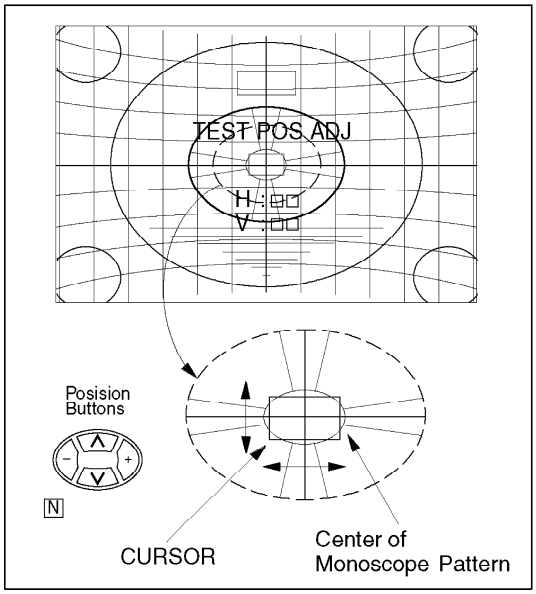


10.2. Convergence Adjustment Procedure

1. **Input a monoscope pattern of PAL.**
2. **Enter the Service Mode1.**
3. **Select the Coarse Convergence by pushing "RED" or "GREEN" buttons. Then push "YELLOW" button, and push Position and [N] buttons to set the data to zero.**
4. **Stick the Convergence Adjustment Sheet (PAL 50Hz) onto the screen.**
5. **Push the “YELLOW” or “BLUE” on the remote control, and enter the Coarse Convergence Adjustment mode.**



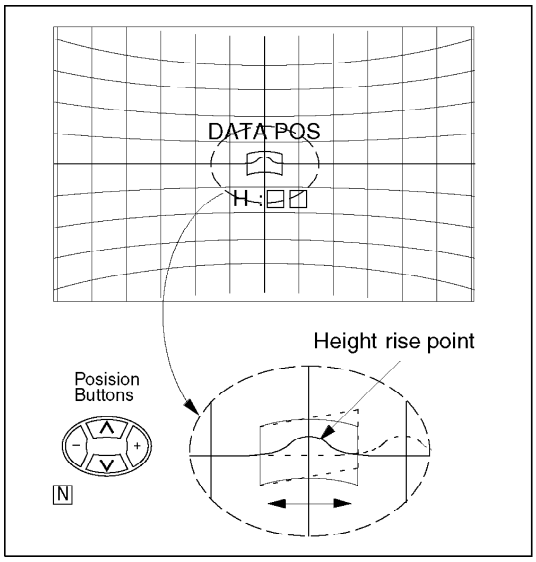
6. **Push the "0" of 10 key buttons, and then push the "N" of position buttons on the remote control.**
7. **Enter to "TEST POS." mode.**
8. **Push the "5" button to display the monoscope pattern on the screen.**
9. **Adjust the position buttons so that the cursor in the center of the test pattern is aligned with the center of the monoscope pattern.**



10. Push the "TV/AV" button on the remote control, and enter the "DATA POS." mode.

11. Push the "5" button and close the background image (monoscope pattern).

12. Use the "◀" and "▶" of the position buttons so that the bump in the screen center line is at the center of the cursor.



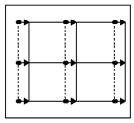
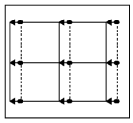
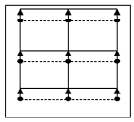
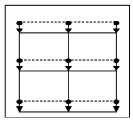
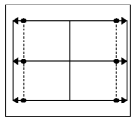
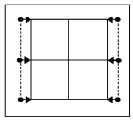
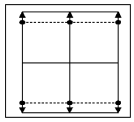
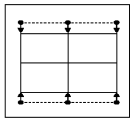
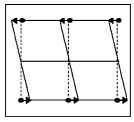
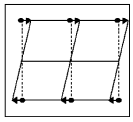
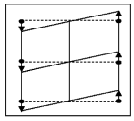
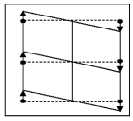
13. Push the "TV/AV" button twice, and enter the "OSD POS" mode.

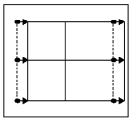
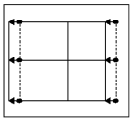
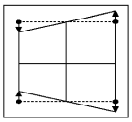
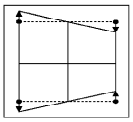
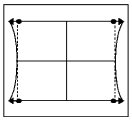
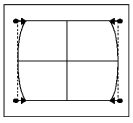
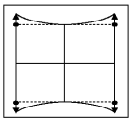
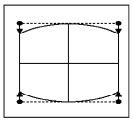
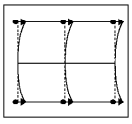
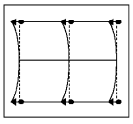
14. Adjust the position buttons so that the cross-cursor is aligned near cross-bar.

15. Push the "SET UP" button, and "N" button to store data.

16. Push the "0" of 10 key buttons, and return to Coarse Convergence Adjustment mode.

10.3. Coarse Convergence Adjustment mode

	MODE	SAMPLE DATA			DAC DATA UP	DAC DATA DOWN
1	STATIC	H	R	162		
			G	26		
			B	–83		
		V	R	28		
			G	30		
			B	38		
2	SIZE	H	R	–87		
			G	–23		
			B	–65		
		V	R	–35		
			G	–72		
			B	–41		
3	SKEW	H	R	–8		
			G	–4		
			B	7		
		V	R	–4		
			G	4		
			B	28		

	MODE	SAMPLE DATA			DAC DATA UP	DAC DATA DOWN
3	LINEARITY	H	R	–132		
			G	79		
			B	336		
4	KEYSTONE	V	R	262		
			G	+94		
			B	–67		
5	PIN	H	R	83		
			G	58		
			B	51		
		V	R	338		
			G	410		
			B	391		
6	CORNER	H	R	+21		
			G	–7		
			B	–67		

10.3.1. Green Coarse Convergence Adjustment

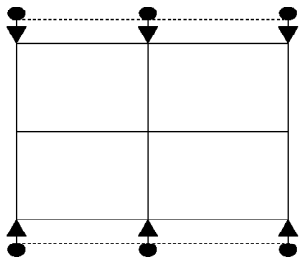
10.3.1.1. Reparation

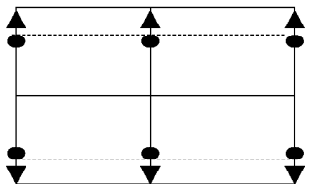
Push the "SOUND" button, and select the Green Adjustment mode.Push the "2" button, and select the "Border and Cross" pattern.Push the "MUTE" button, and select the "Green" colour.

10.3.1.2. "G-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "G-SIZE (V)".Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame.

Fig. A : V–SIZE





10.3.1.3. "G-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "G-SIZE (H)".Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame.

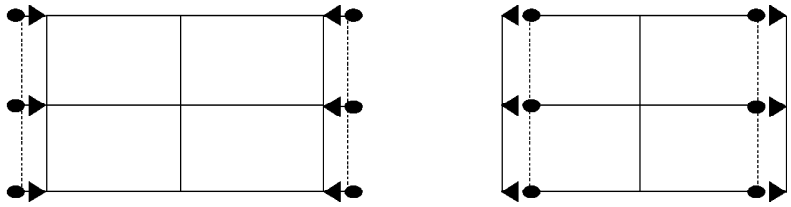


Fig. B : H–SIZE

10.3.1.4. "G-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "G-LINEAR".Push the "Volume up/down" buttons, and adjust the "G-LINEAR" to become the following figure.

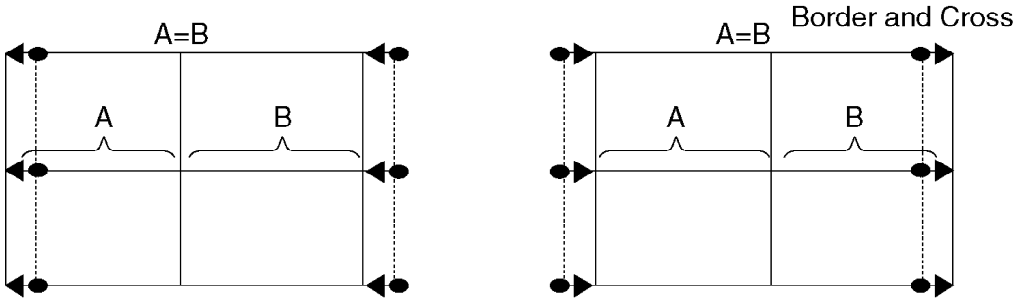


Fig.C : LINEAR

10.3.1.5. "G-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN".Push the "Channel up/down" buttons, and adjust the "G-PIN (V)" to become the following figure.

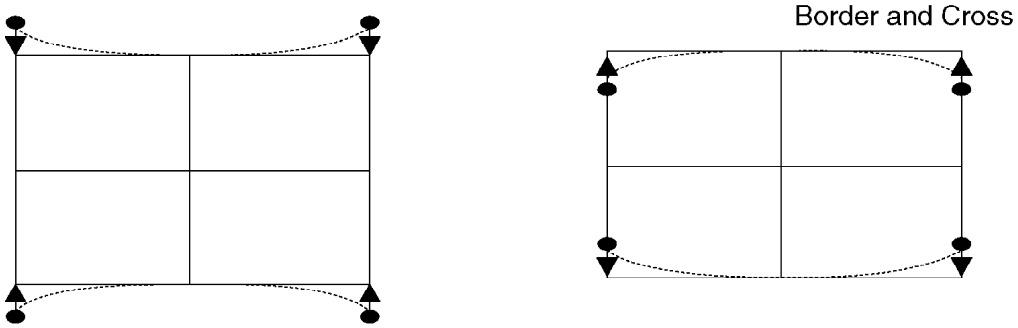


Fig.D : V-PIN

10.3.1.6. "G-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN".Push the "Volume up/down" buttons, and adjust the "G-PIN (H)" to become the following figure.

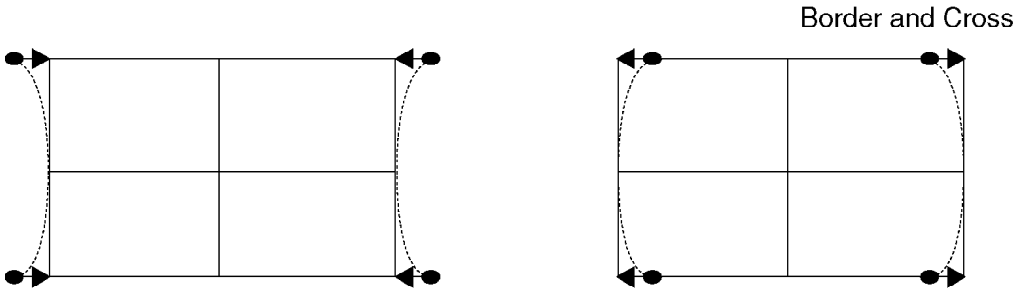


Fig.E : H-PIN

10.3.1.7. "G-CORNER" adjustment

Push the "TV/AV" buttons, and select the "G-CORNER".Push the "Volume up/down" buttons, and adjust the "G-CORNER" to become the following figure.

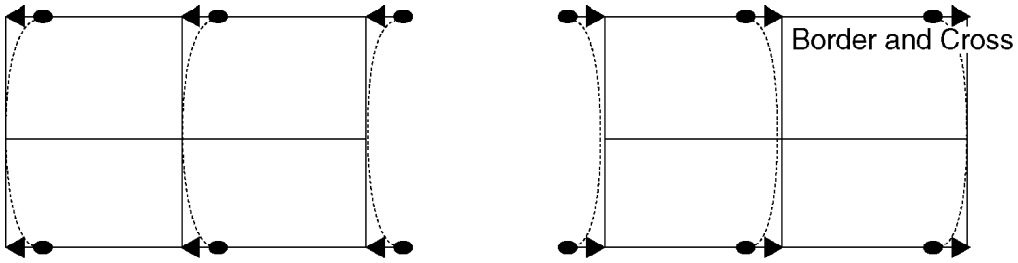


Fig.F : CORNER

10.3.1.8. "G-KEY" adjustment

Push the "TV/AV" buttons, and select the "G-KEY".Push the "Channel up/down" buttons, and adjust the "G-KEY" refer to following figure.

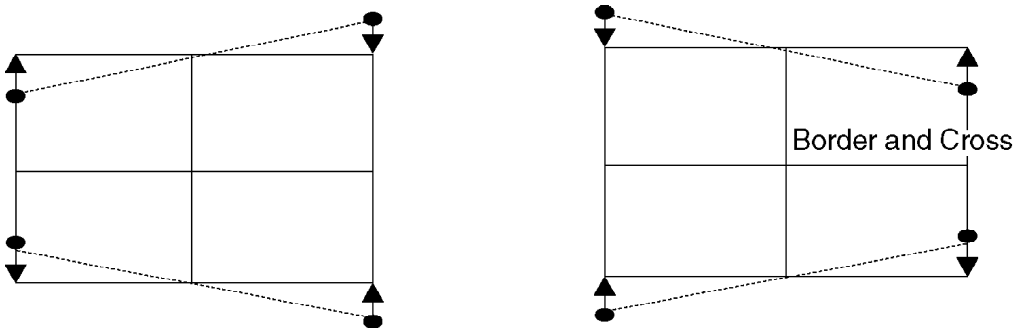


Fig.G : KEY

10.3.1.9. "G-STATIC" adjustment

Push the "TV/AV" buttons, and select the "G-STATIC".Push the "Channel/Volume up/down" buttons, and adjust "G-STATIC" so that Horizontal & Vertical center line is aligned with the bump in the screen center mark.

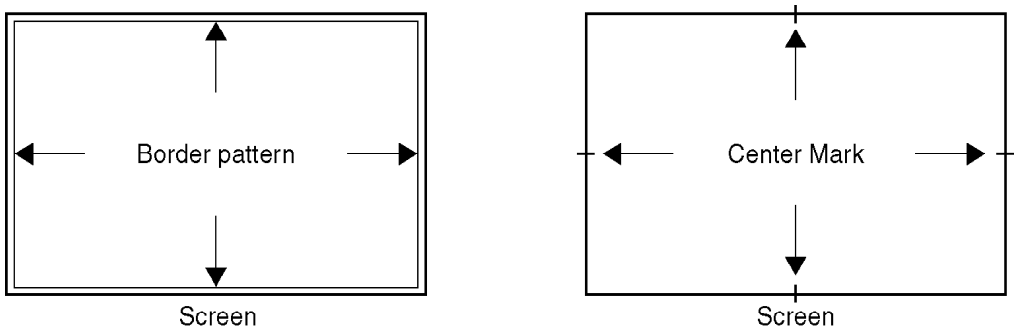


Fig.H STATIC

10.3.2. Red Coarse Convergence Adjustment

10.3.2.1. Reparation

Push the "SOUND" button, and select the Red Adjustment mode.Push the "2" button, and select the "Border and Cross" pattern.Push the "MUTE" button, and select the "Yellow" colour.Push the "POSITION" button, and adjust the "R-STATIC" so that the Redcolor of pattern is aligned with Green colour of pattern.

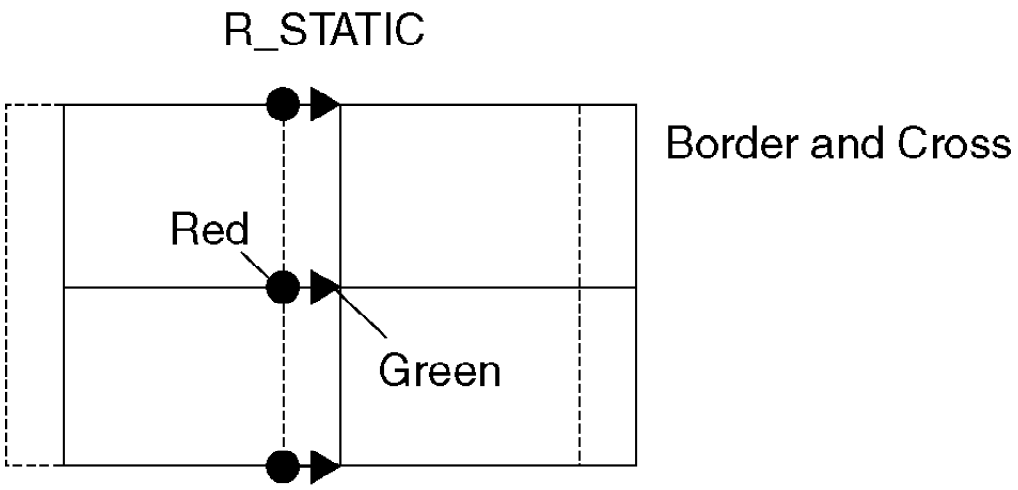


Fig.I : R-STATIC

10.3.2.2. "R-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW".Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to figure.)

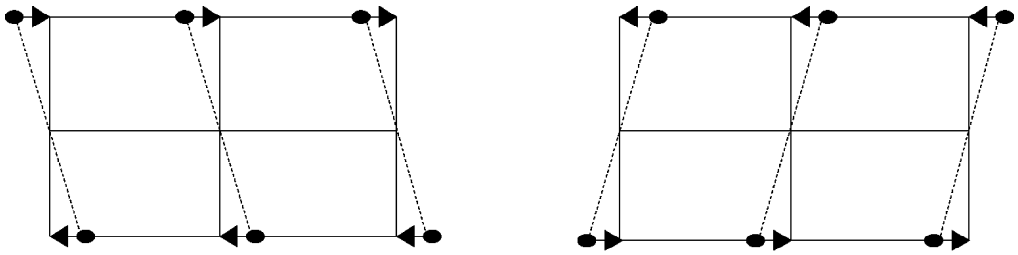


Fig.J : SKEW(V)

10.3.2.3. "R-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW".Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to figure.)

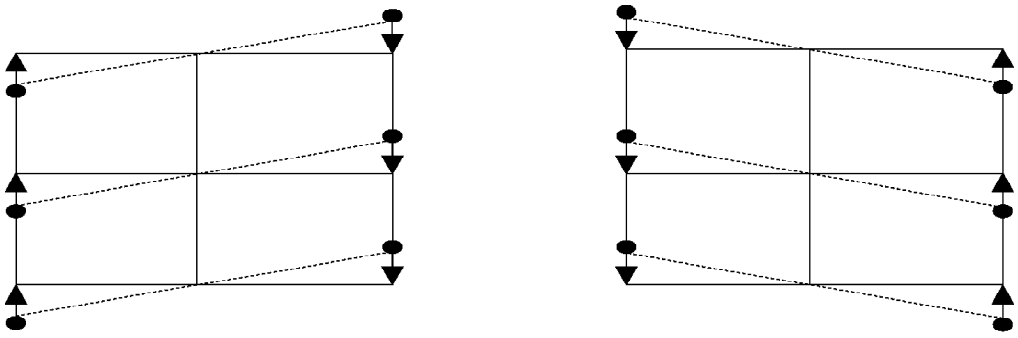


Fig.K : SKEW(H)

10.3.2.4. "R-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE".Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

10.3.2.5. "R-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE".Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)

10.3.2.6. "R-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "R-LINEAR".Push the "Volume up/down" buttons, and adjust the "R-LINEAR". (Refer to Fig. C.)

10.3.2.7. "R-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN".Push the "Channel up/down" buttons, and adjust the "R-PIN (V)". (Refer to Fig. D.)

10.3.2.8. "R-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN".Push the "Volume up/down" buttons, and adjust the "R-PIN (H)". (Refer to Fig. E.)

10.3.2.9. "R-CORNER" adjustment

Push the "TV/AV" buttons, and select the "R-CORNER".Push the "Channel up/down" buttons, and adjust the "R-CORNER". (Refer to Fig. F.)

10.3.2.10. "R-KEY" adjustment

Push the "TV/AV" buttons, and select the "R-KEY".Push the "Channel up/down" buttons, and adjust the "R-KEY". (Refer to Fig. G.)

10.3.2.11. "R-STATIC" adjustment

Push the "TV/AV" buttons, and select the "R-STATIC.Push the "Channel/Volume up/down" buttons, and adjust "R-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark.(Refer to Fig. H.)

10.3.3. Blue Coarse Convergence Adjustment

10.3.3.1. Reparation

Push the "SOUND" button, and select the Blue Adjustment mode.Push the "2" button, and select the "Border and Cross" pattern.Push the "MUTE" button, and select the "Cyan" colour.Push the "POSITION" button, and adjust the "B-STATIC" so that the Bluecolor of pattern is aligned with Green colour of pattern.

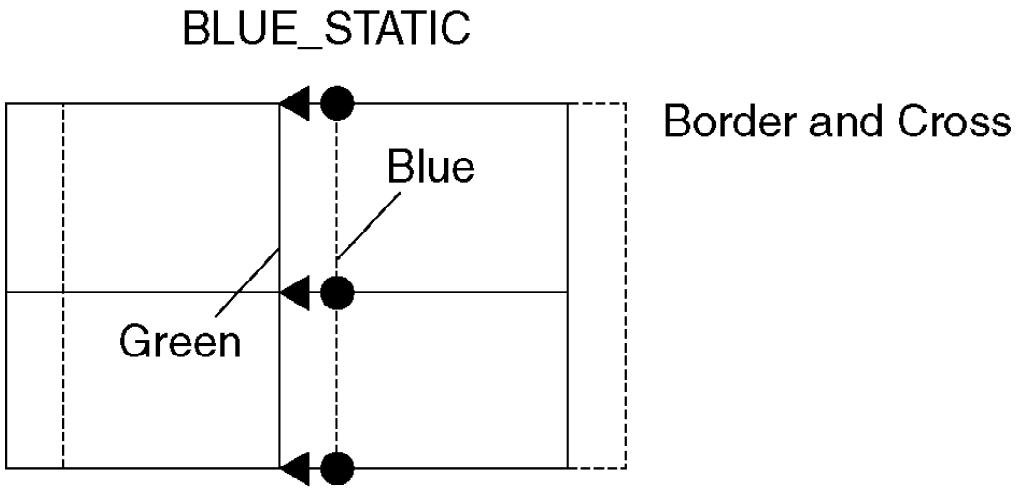


Fig.L : B-STATIC

10.3.3.2. "B-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW".Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to Fig. J.)

10.3.3.3. "B-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW".Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to Fig.K.)

10.3.3.4. "B-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE".Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

10.3.3.5. "B-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE".Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)

10.3.3.6. "B-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "B-LINEAR".Push the "Volume up/down" buttons, and adjust the "B-LINEAR". (Refer to Fig. C.)

10.3.3.7. "B-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "B-PIN".Push the "Channel up/down" buttons, and adjust the "B-PIN (V)" (Refer to Fig. D.)

10.3.3.8. "B-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "B-PIN".Push the "Volume up/down" buttons, and adjust the "B-PIN (H)". (Refer to Fig. E.)

10.3.3.9. "B-CORNER" adjustment

Push the "TV/AV" buttons, and select the "B-CORNER".Push the "Channel up/down" buttons, and adjust the "B-CORNER". (Refer to Fig. F.)

10.3.3.10. "B-KEY" adjustment

Push the "TV/AV" buttons, and select the "B-KEY".Push the "Channel up/down" buttons, and adjust the "B-KEY". (Refer to Fig. G.)

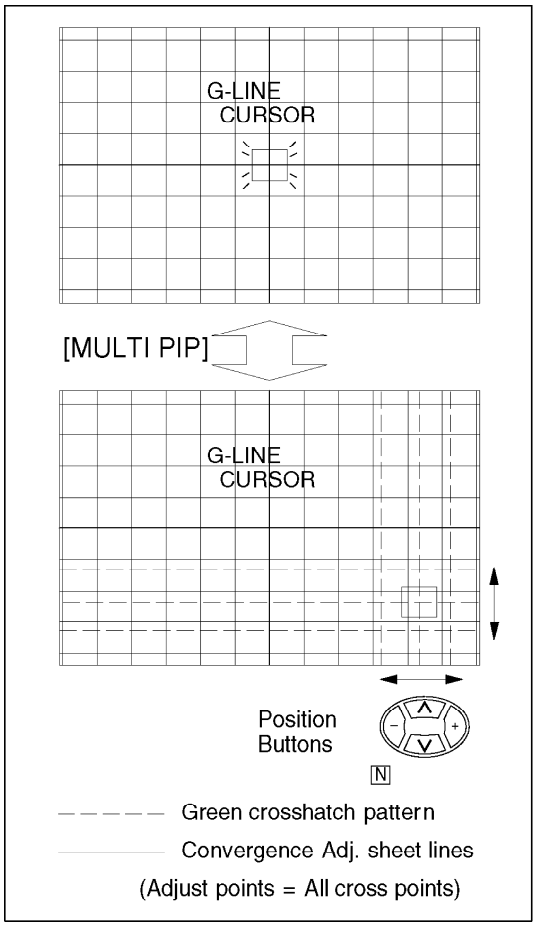
10.3.3.11. "B-STATIC" adjustment

Push the "TV/AV" buttons, and select the "B-STATIC.Push the "Channel/Volume up/down" buttons, and adjust "B-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark.(Refer to Fig. H.)

10.4. Fine Convergence Adjustment

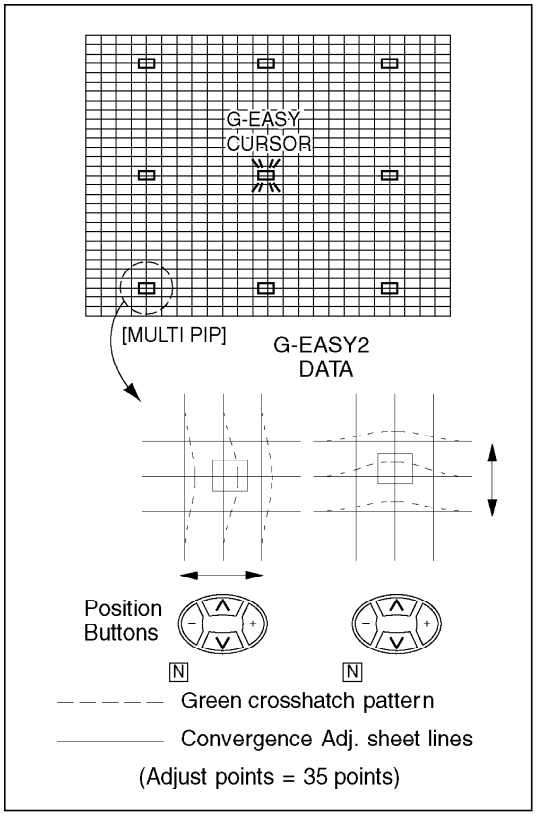
10.4.1. Green Convergence Adjustment

1. Select the "G-LINE CURSOR" mode by pushing "TV/AV" button on the remote control

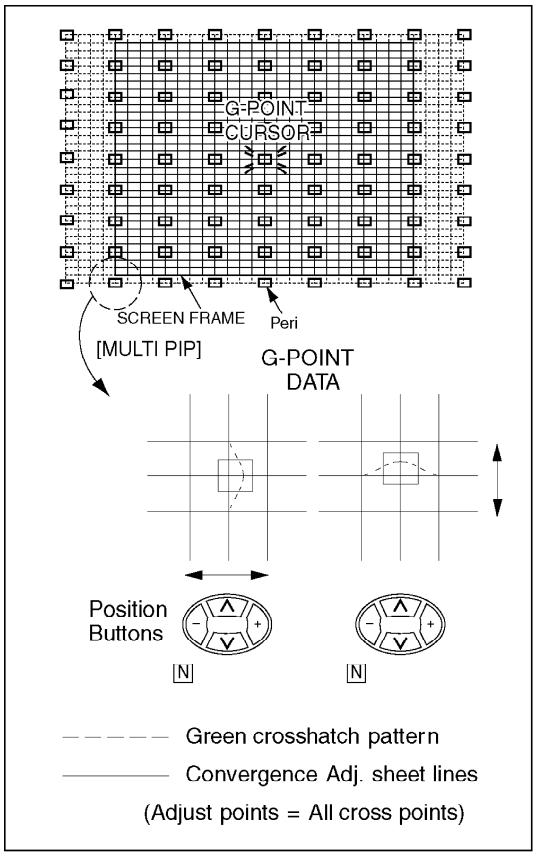


2. **Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".**
3. **Use the Position Buttons to adjust each point (line) so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.**
4. **Push the "MULTI PIP" and switch from "G-LINE DATA" to "G-LINE CURSOR".**
5. **Repeat step 21~23 to adjust the vertical lines (13) and the horizontal lines (9).**
6. **Select the "G-EASY CURSOR" mode by pushing "TV/AV" button on the remote control.**
7. **Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment point). Then use the "MULTI PIP" to change from "G-EASY CURSOR" to "G-EASY DATA".**

8. **Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.**
9. **Push the "MULTI PIP" and with from "G-EASY DATA" to "G-EASY CURSOR".**
10. **Repeat step 7~9 to adjust the 9 adjustment points.**



11. **Select the "G-POINT CURSOR" mode by pushing "TV/AV" button on the remote control.**
12. **Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".**
13. **Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.**
14. **Push the "MULTI PIP" and switch from "G-POINT DATA" to "G-POINT CURSOR".**
15. **Repeat step 12-14 to adjust all of adjustment points.**



16. Adjust the LINE, EASY and POINT DATA again viewing all over the screen.
If need the adjustment at the around of screen, select the "ORIGINAL" and adjust it.

17. To store the data after the Green Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button (pushing the "N" button will store the data in the E^2 PROM).

18. Remove the Convergence Adjustment Sheet from the screen.

10.4.2. Red Convergence Adjustment

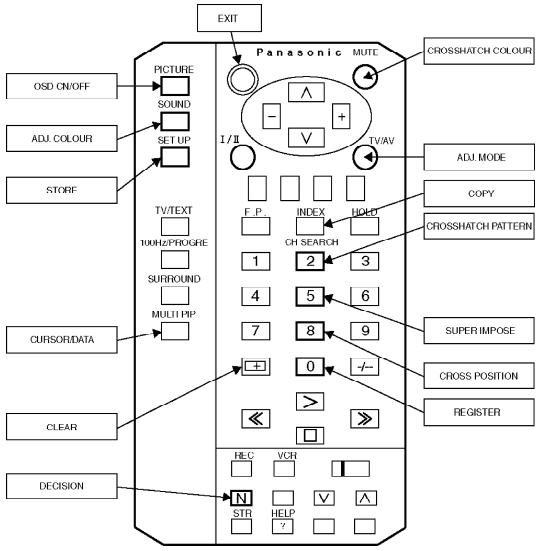
1. Push the "MUTE" button twice and change to the Red Adjustment of Yellow Colour.

2. Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Red Convergence Adjustment.

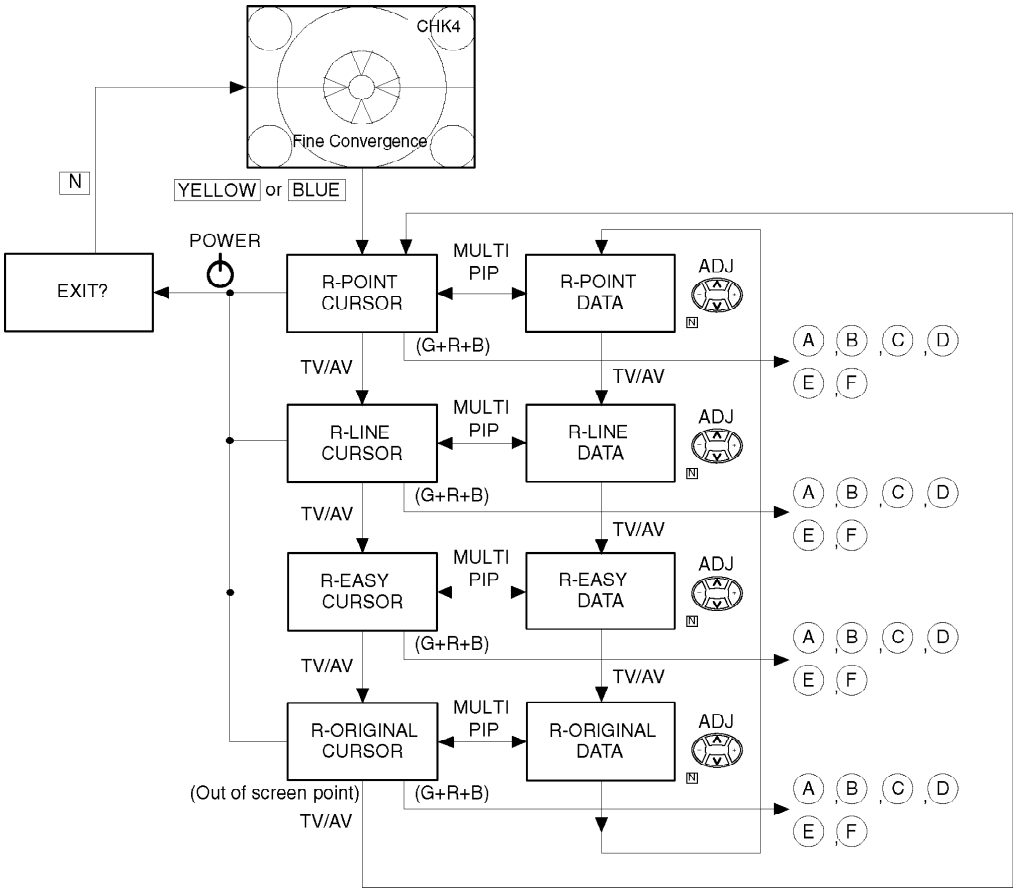
3. To store the data after the Red Convergence Adjustment has been completed, push the "MAIN MENU" button and then the "N" button.

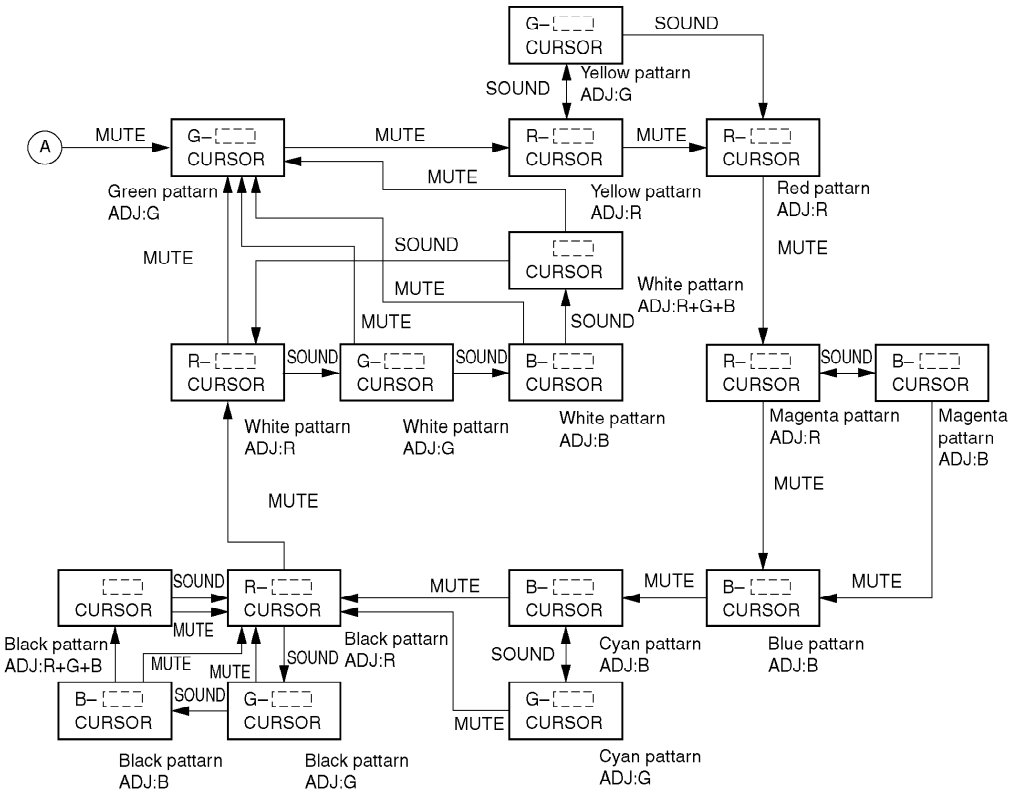
10.4.3. Blue Convergence Adjustment

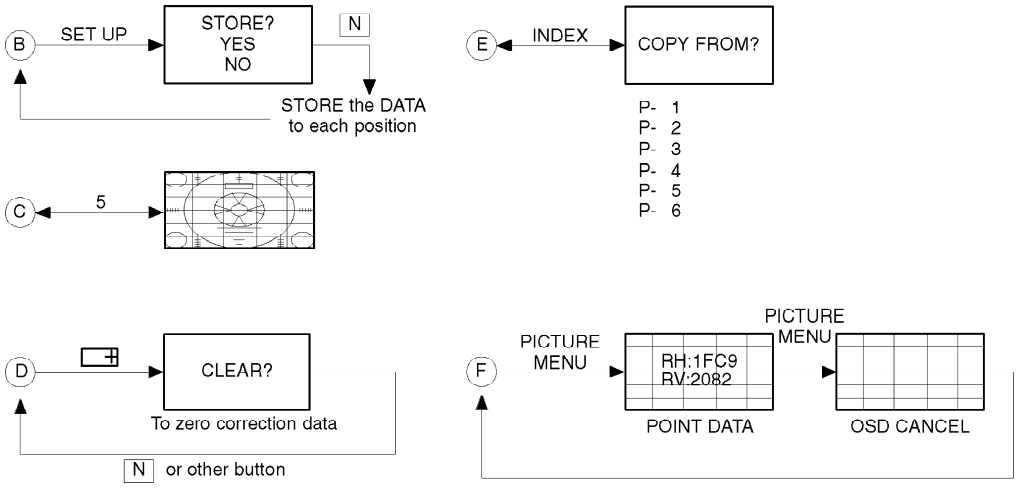
1. **Push the "MUTE" button twice and change to the Blue Adjustment of cyan Colour.**
2. **Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Blue Convergence Adjustment.**
3. **To store the data after the Blue Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button.**
4. **To switch from the Convergence Adjustment Mode to the Service Mode, press the Power button and then push the "N" button. Repeat the same adjustment after inputting the 60Hz (NTSC) signal.**



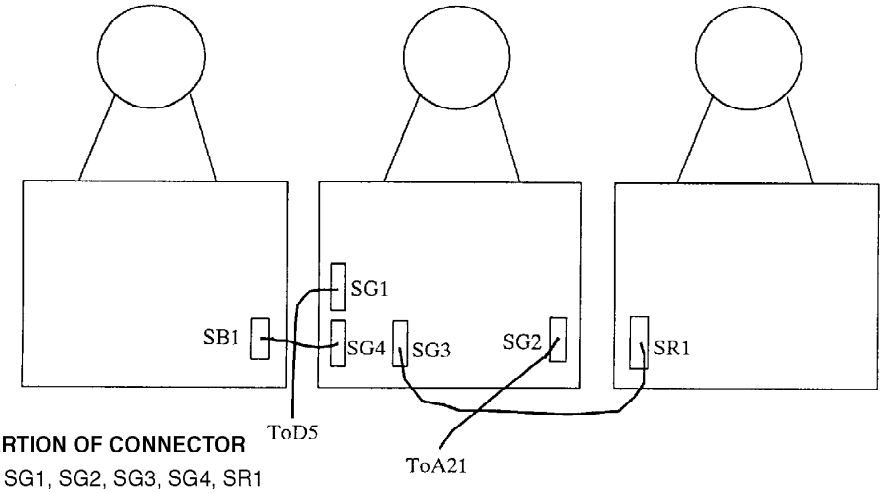
Fine Convergence Control Chart


CHK4
Fine Convergence
N
YELLOW or BLUE
POWER
EXIT?
R-POINT CURSOR
MULTI PIP
R-POINT DATA
ADJ
(G+R+B)
TV/AV
R-LINE CURSOR
R-LINE DATA
R-EASY CURSOR
R-EASY DATA
R-ORIGINAL CURSOR
R-ORIGINAL DATA
(Out of screen point)
A, B, C, D
E, F

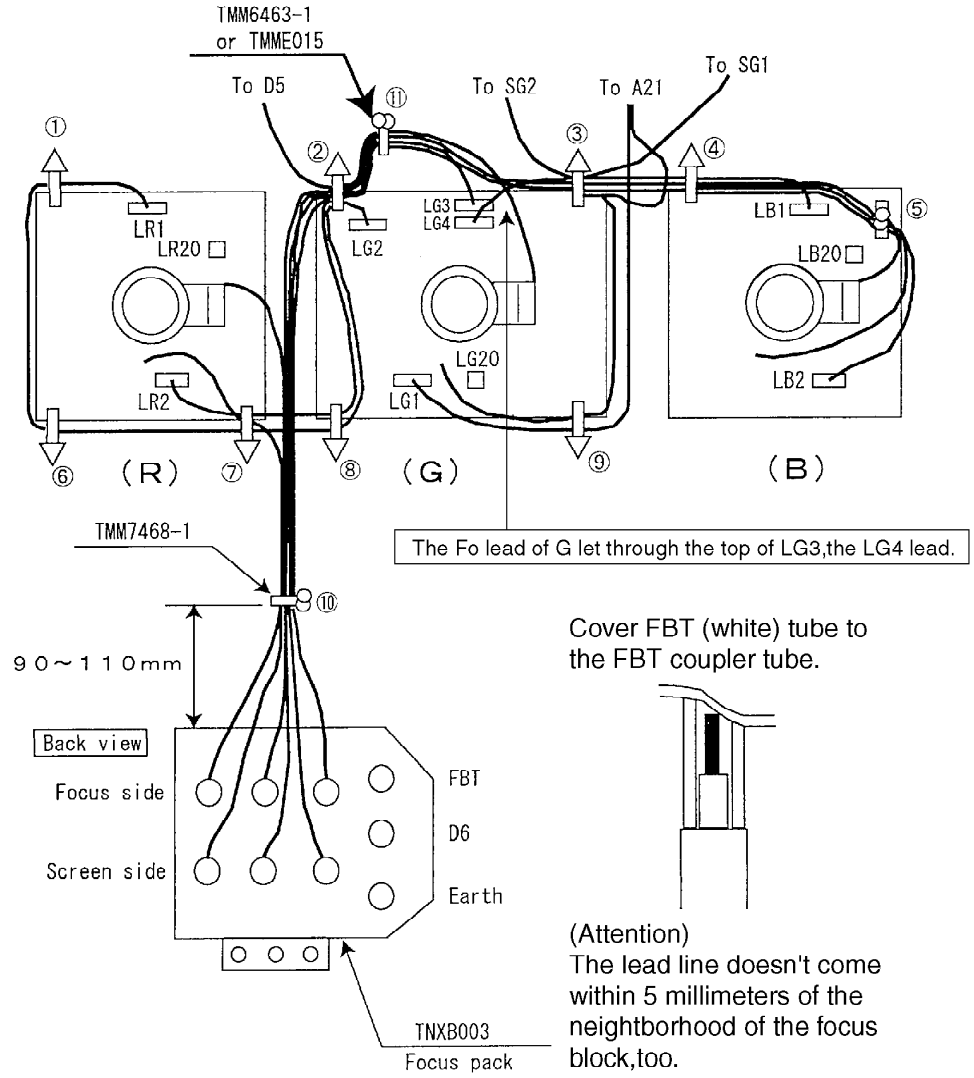

G– CURSOR
SOUND
Yellow pattarn ADJ:G
MUTE
R– CURSOR
Green pattarn ADJ:G
Yellow pattarn ADJ:R
Red pattarn ADJ:R
White pattarn ADJ:R+G+B
B– CURSOR
White pattarn ADJ:R
White pattarn ADJ:G
White pattarn ADJ:B
Magenta pattarn ADJ:R
Magenta pattarn ADJ:B
Black pattarn ADJ:R+G+B
Black pattarn ADJ:R
Cyan pattarn ADJ:B
Blue pattarn ADJ:B
Black pattarn ADJ:B
Black pattarn ADJ:G
Cyan pattarn ADJ:G



11. Location of Lead Wiring



INSERTION OF CONNECTOR
SB1, SG1, SG2, SG3, SG4, SR1



INSERTION OF CONNECTOR
LR1, LR2, LG1, LG2, LG3, LG4, LG5, LG6, LG7, LB1, LB2,

LRGND1, LGGND1, LBGND1

CLAMP DOUBLE CLAMP : ◎

WIRES \ CLAMPER	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳
SG2			●																	
SG1		●	●								●									
Focus (R)										●										
Focus (G)		●								●	●									
Focus (B)		●	●	●	●					●	●									
Screen (R)							●			●										
Screen (G)		●	●						●	●	●									
Screen (B)		●	●	●	●					●	●									
LR1~LG3	●	●				●	●	●			●									
LR2~A21		●	●				●	●			●									
LG1~A21									●											
LG4~LB1			●	●																
LG2~D5		●									●									
LB2				●	●															

NOTICE FOR WORE DRESSING

1. **Confirm that the lead line isn't hitting the metallic part of the neck print after CRT neck print (R, G, B) insertion.**
2. **It decides to be permitted to insert the lead line (R, G, B) of the VM coil wherever of LG5, LG6, LG7 of the LG print.**
3. **It decides to be permitted to insert G, B of the DY lead in either.**

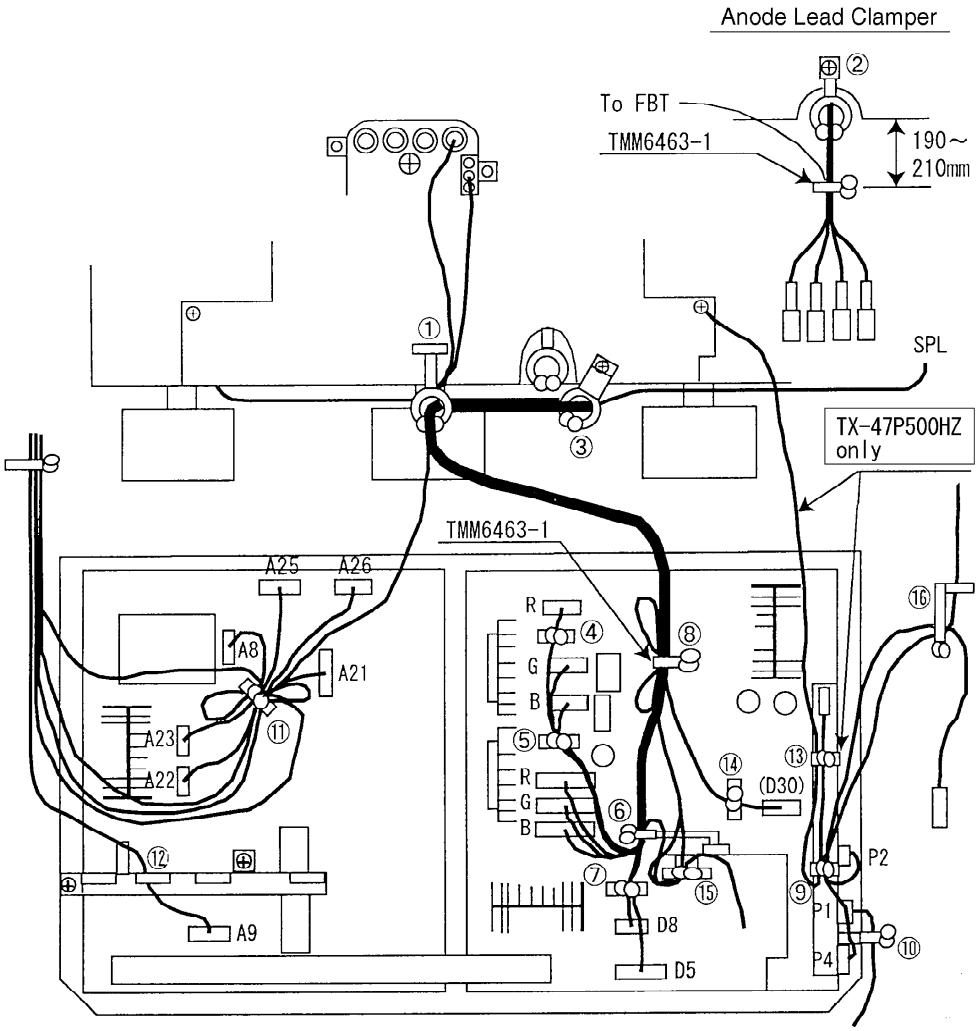
The Anode Lead

1. **It inserts Anode lead tip in the back to FBT (the fly background transformer), and it makes turn on the right and it locks it. (Three insertion positions are free).**
2. **Secure a safe space distance from the circumference part by equal to or more than 10 millimeters.**

Attention

1. There is not sagging in Clamper ⑲-the D30 coupler pipe.

2. Drink a lead between P Prix metal fittings-the optical metal fittings in the New Zealand turning and use it.



INSERTION OF CONNECTOR
A9, A21, A22, A23, A25, A26, Anode distributor (R, G, B, FBT), D5,
DY (R, G, B), CY (R, G, B),
D30, P1, P2, P4, Focus pack (Red)

CLAMP DOUBLE CLAMP : ◎

WIRES \ CLAMPER	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳
A22~RSP											◎									
B~DY	●					●		●							●					
B~CY	●				●	●		●												
G~DY	●		●			●		●							●					
G~CY	●		●		●	●		●							●					
R~DY	●		●			●		◎							●					
R~CY	●		●	●	●	●		◎							●					
D8~Distributor	●					●	●													
M12~A25											●									
M12~A9												●								
M11~A26											●									
A23~LSP	●		●								◎									
LG2~D5	●		●			●	●	●												
FBT~Focus pack	●		●					●							●					
D30~Focus pack	●		●					●						●						
M1~P2									●							●				
Cabinet Earth~P4									●							●				
AC cord										●										
Pプリ金具~光学金具									●				◎							
A8~M13											●									
A21~LB2,LG1,LR2											◎									

TX-47P500HZ only

NOTICE FOR WIRE DRESSING

1. After insert R, G, B on CRT-print, confirm that wire should not touch to material parts of CRT-print.

12. Conductor Views

12.1. A-Board

12.2. D-Board

12.3. DG-Board

12.4. H-Board

12.5. LB-Board and LR-Board

12.6. LG-Board and M-Board

12.7. P-Board

12.8. SR-Board, SG-Board and SB-Board

12.9. U-Board

13. Block Diagram

13.1. Audio Block Diagram

13.2. Video Block Diagram

13.3. Power Block Diagram

13.4. Control Block Diagram

14. Schematic Diagram

14.1. Schematic Diagram Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

Notes:

1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
   ○ : Nonflammable ⊠ : Metal Oxide
   △ : Solid ◎ : Metal Film
   ▨ : Wire Wound ⊗ : Fuse:
2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is μF, unless otherwise noted.
   ⊗ : Temperature Compensation ⊣⊢ : Electrolytic
   Ⓜ : Polyester ⊣⊢ : Ripolar
   ⓜ : Metalized Polyester ⓣ : Dipped Tantalum
   ⊠ : Polypropylene ⓩ : Z-Type
3. Coil
   Unit of inductance is μF, unless otherwise noted.
4. Test Point
   ⬡ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ▽ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source .....
   TX-43/51P250HM/HQ/HZ,TC-51P250H : AC 220V-240V, 50/60Hz
   TX-43/51P250X : AC 110V-240V, 50/60Hz
   Receiving Signal ..... Colour Bar signal (RF)
   All customer's controls ..... Maximum positions
7. Number in red circle indicates waveform nember.
   (See waveform pattern table.)
8. When arrow mark (➚) is found, connection is easily found from the direction of arrow
9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150- MA162 (Replacement part)

14.2. A-Board (1 of 4) Schematic Diagram

14.3. A-Board (2 of 4) Schematic Diagram

14.4. A-Board (3 of 4) Schematic Diagram
14.5. A-Board (4 of 4) Schematic Diagram
14.6. D-Board (1 of 2) Schematic Diagram
14.7. D-Board (2 of 2) Schematic Diagram
14.8. DG-Board (1 of 3) Schematic Diagram
14.9. DG-Board (2 of 3) Schematic Diagram
14.10. DG-Board (3 of 3) Schematic Diagram
14.11. H-Board Schematic Diagram
14.12. LR, LG and LB-Board Schematic Diagram
14.13. M-Board Schematic Diagram
14.14. P-Board Schematic Diagram
14.15. SR, SG and SB-Board Schematic Diagram
14.16. U-Board Schematic Diagram

15. Parts location

Note:
The number on mechanical parts indicates Ref. No.
Mechanical Replacement Parts List

16. Mechanical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	EAST6PH12A6	SPEAKER	2	
2	EUR511229	REMOTE CONTROL	1	
3	G0F100000004	DEFLECTION YOKE	3	⚠
	KFT7CP336F	HIGH VOLTAGE DIVISION	1	⚠
4	L0AA13A00001	SPEAKER(W00FER)	2	
5	TBLB0010	CASTER	4	
6	TBMA071	PANASONIC BADGE	1	
7	TBXA33501	POWER BUTTON	1	
8	TEK6940	DOOR SWITCH	1	
	TEKC011	DAMPER	1	
	TES6583	SPRING FOR TR	2	
9	TESA031	SPRING	1	
	THT1062	SCREW	6	
	THTA006Z	SCREW	20	
	THTA006Z	SCREW	15	
10	TJS2A8420	AC PLUG ADAPTOR	1	K2DR42D00001 TX-47P500X
11	TKGF0007	LENS (G)	1	
12	TKGF0013	LENS (R)	1	
13	TKGF0014	LENS (B)	1	
14	TKGH5060	SCREEN / (LENTICULAR)	1	
15	TKGH5061	SCREEN / (FRESNEL)	1	
16	TKGJ5048	MIRROR	1	
17	TKJC007	SPEAKER BOARD(LEFT)	1	
18	TKJC008	SPEAKER BOARD(RIGHT)	1	
19	TKKC5126	PANEL LIGHT	1	
20	TKKF5046-1	COVER	1	
	TKKH5061	COVER	2	
21	TKKL5088	AC CORD COVER	1	
22	TKP0AA4301	REAR TERMINAL BOARD	1	
23	TKPA55402	DOOR	1	
24	TLHX017	VM COIL	3	
	TMM14444	CLAMPER	1	
	TMM16452	CLAMPER	6	
	TMM16473-1	CLAMPER	4	
	TMM16480-1	CLAMPER	1	
	TMM16480-1	CLAMPER	2	
	TMM16497-1	CLAMPER	8	
	TMM6428-1	CLAMPER	1	
	TMM6463-1	CLAMPER	3	
	TMM6463-1	CLAMPER	1	
	TMM7464-2	CLAMPER	2	
	TMM7468-1	CLAMPER	1	
	TMM76430-1	CLAMPER	1	
	TMM76430-1	CLAMPER	2	
	TMME047	CLAMPER	1	
	TMMX027-2	HOLDER	1	
	TMW0A707-1	PC SUPPORT	1	
25	TMWJ017	LED HOLDER	1	
26	TNXB003	FOCUS BLOCK	1	D9ZZ00000075 ⚠
	TPCA79501	BOTTOM CARTON	1	
	TPCB20901	CARTON BOX	1	TX-47P500HM
	TPCB20903	CARTON BOX	1	TX-47P500HQ/HZ

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TPCB20904	CARTON BOX	1	TX-47P500X
	TPD169487	JOINT	4	
	TPD169564	JOINT	2	
	TPDA0360-2	CUSHION(BOTTOM)	1	
	TPDA0362-2	CUSHION	1	
	TPDA0363-1	CUSHION (REAR)	1	
	TPDA0621	CUSHION (TOP)	1	
	TPDA0622	CUSHION	1	
	TPDF0416	CUSHION (TOP)	1	
	TPDF0845	CUSHION	2	
	TPEH090	PROTECT COVER	1	
	TPEH132-1	SET COVER	1	
	TQBC0369	INSTRUCTION BOOK(ENGLISH)	1	
	TQBC0370	INSTRUCTION BOOK(ARABIA)	1	TX-47P500X
27	TSX1495	AC POWER CORD	1	TX-47P500HQ/HZ ⚠
28	TSX5132-2	AC POWER CORD	1	TX-47P500HM ⚠
29	TSX5134-3	AC POWER CORD	1	TX-47P500X ⚠
30	TTPA0209	CONTROL PANEL	1	
31	TTPA0211	SPEAKER GRILLE	1	
32	TTPA0229	ORNAMENT PANEL	1	TX-47P500HM/HQ/HZ
32	TTPA0230	ORNAMENT PANEL	1	TX-47P500X
33	TTUA0511	REAR COVER (TOP)	1	
34	TTUA0512	REAR COVER (BOTTOM)	1	TX-47P500HM
34	TTUA0513	REAR COVER (BOTTOM)	1	TX-47P500HQ/HZ
34	TTUA0514	REAR COVER (BOTTOM)	1	TX-47P500X
35	TTYA0479	CABINET (BOTTOM)	1	
36	TTYA0498	CABINET (TOP)	1	
37	TUA0A0500-1	CHASSIS FRAME	1	
38	TVVAB10GAV	PICTURE TUBE (B)	1	⚠
39	TVVAG10GAV	PICTURE TUBE (G)	1	⚠
40	TVVAR10GAV	PICTURE TUBE (R)	1	⚠
	TXAJS02ZEH	CABLE	1	
	TXFMZ010GFV	SCREEN HOLDER	6	
	XTB4+10J	SCREW	11	
	XTB4+12A	SCREW	3	
	XTB4+15A	SCREW	6	
	XTBT964	SCREW	30	
	XTV3+12A	SCREW	8	
	XTV3+12G	SCREW	5	
	XTV3+12GFZ	SCREW	3	
	XTV3+6J	SCREW	2	
	XTV3+8G	SCREW	6	
	XTW3+10T	SCREW	21	
	XTW3+8T	SCREW	2	
	XTW4+Z15D	SCREW	6	
	XWC8B	WASHER	1	
	XYN3+C8	SCREW	1	
	XYN3+F10	SCREW	2	
	XYN3+F12	SCREW	1	
	XYN3+F16	SCREW	4	
	XYN3+F8	SCREW	1	
	XYN3+J8	SCREW	25	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	XYN4+F14	SCREW	12	
	XYN5+F16	SCREW	12	
	XZBT6506	POLY BAG	1	

17. Electrical Replacement Parts List

17.1. Replacement Parts List Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

Type Allowance

Type	Allowance
C : Carbon	F : ±1%
F : Fuse	G : ±2%
M : Metal Oxide Metal Film	J : ±5%
S : Solid	K : ±10%
W : Wire Wound	M : ±20%

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

Type	Allowance
C : Ceramic	C : ±0.25pF
E : Electrolytic	D : ±0.5pF
P : Polyester Polyprop lene	F : ±1pF
	G : ±3pF
	J : ±5pF
T : Tantalum	K : ±10pF
	L : ±15pF
	M : ±20pF
	P : +100%, -0%
	Z : +80%, -20%

17.2. Electrical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A1-A3	TJSF19916	16P CONNECTOR	3	K1KA16A00119
A4	TJS1A8150	9P CONNECTOR	1	K1KA09B00019
A5	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
A6	TJSF19916	16P CONNECTOR	1	K1KA16A00119
A8	TJS3A9680	7P CONNECTOR	1	K1KA07A00095
A9	TJS3A9650	4P CONNECTOR	1	K1KA04A00194
A10,11	TJSF17325	25P CONNECTOR	2	K1KB25B00006
A17	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
A21	TJS3A9910	11P CONNECTOR	1	K1KA11A00059
A22	TJS3A9660	5P CONNECTOR	1	K1KA05A00138
A23	TJS3A9650	4P CONNECTOR	1	K1KA04A00194
A25	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
A26	TJS3A9660	5P CONNECTOR	1	K1KA05A00138
A31	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
A44	TJSF57570	70P CONNECTOR	1	
A1101,02	K1KA30A00128	30P CONNECTOR	2	
C001	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C002	ECA1HM100	E 10UF, 50V	1	
C003	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C008	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C012	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C013	ECA0JM102	E 1000UF, 6.3V	1	
C014	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C018	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C020	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C022,23	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C024	ECA1CM101	E 100UF, 16V	1	
C025	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
C026	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C051	ECEA1HN010U	E 1UF, 50V	1	
C057	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C062,63	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C064	ECA1HM100	E 10UF, 50V	1	
C068	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C069	ECA1CHG101	E 100UF, 16V	1	
C070	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C071	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C081	ECJ2VB1H273K	C 0.027UF, K, 50V	1	
C351	ECA2EM100	E 10UF, 250V	1	
C353	ECKD2H103PU	C 0.01UF, P,500V	1	
C356	ECKD3D102KBN	C 1000PF, K, 2KV	1	
C357	ECQB1H104KF	P 0.1UF, K, 50V	1	
C360	ECA1VM470	E 47UF, 35V	1	
C361	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C364	ECA1VM470	E 47UF, 35V	1	
C365	ECA2EM470	E 47UF, 250V	1	
C371	ECA2EM100	E 10UF, 250V	1	
C373	ECKD2H103PU	C 0.01UF, P,500V	1	
C374	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C376	ECKD3D102KBN	C 1000PF, K, 2KV	1	
C377	ECQB1H104KF	P 0.1UF, K, 50V	1	
C380	ECA1VM470	E 47UF, 35V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C381	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C391	ECA2EM100	E 10UF, 250V	1	
C393	ECKD2H103PU	C 0.01UF, P,500V	1	
C396	ECKD3D102KBN	C 1000PF, K, 2KV	1	
C397	ECQB1H104KF	P 0.1UF, K, 50V	1	
C451	ECA1VM470	E 47UF, 35V	1	
C452,53	ECA1VM471	E 470UF, 35V	2	
C455	ECEA1CN220U	E 22UF, 16V	1	
C456	ECQB1224KF	P 0.22UF, 100V	1	
C460	ECA1HM100	E 10UF, 50V	1	
C461	ECA1HM102	E 1000UF, 50V	1	
C462	ECQV1H104JM	P 0.1UF, J, 50V	1	
C463	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C464	ECJ2XC1H471J	C 470PF, J, 50V	1	
C475	ECJ2XC1H151J	C 150PF, J, 50V	1	ECUM1H151JCN
C476	ECHS1H102FZ	P 1000PF, F, 50V	1	
C482	ECA1CM102	E 1000UF, 16V	1	
C490	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C502	ECA1VM101	E 100UF, 35V	1	
C503	ECQV1H104JM	P 0.1UF, J, 50V	1	
C504	ECKD2H102KB2	C 1000PF, K,500V	1	
C505	ECA1HM471	E 470UF, 50V	1	
C510	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C511	ECCD3F181KGE	C 270PF, K, 2KV	1	
C512	ECWH20272JVY	P 2700PF, J, 2KV	1	
C513	ECQF4103JZ	P 0.01UF, J,400V	1	
C514	ECWH20272JVY	P 2700PF, J, 2KV	1	
C515	ECWF2474JSR	P 0.47UF, J,250V	1	
C516	ECWH20272JVY	P 2700PF, J, 2KV	1	
C517,18	ECKD3D152JBP	C 1500PF, J, 2KV	2	
C519	ECQB1H393JF	P 0.039UF, J, 50V	1	
C520	ECA2EM470	E 47UF, 250V	1	
C521	ECKD2H102KB2	C 1000PF, K,500V	1	
C522	ECA160V33U	E 33UF, 160V	1	
C523	ECA1HM470	E 47UF, 50V	1	
C524	ECKD2H392KB2	C 3900PF, K,500V	1	
C525	ECKD2H122KB2	C 1200PF, K,500V	1	
C526	ERDS2TC0	C 0 OHM, 1/4W	1	
C531	ECKD2H101KB2	C 100PF, K,500V	1	
C533	ECQF4103JZ	P 0.01UF, J,400V	1	
C534	ECQF6682JZ	P 6800PF, J,630V	1	
C536	ECWH20272JVY	P 2700PF, J, 2KV	1	
C701	ECKD3D271KBP	C 270PF, K, 2KV	1	
C702	ECQE2824KF	P 0.82UF, J,250V	1	
C704,05	ECQE1106KF	P 10UF, K,250V	2	
C802-04	ECKDAE472ZE	C 4700PF, Z,	3	
C805,06	ECQU2A224MN	P 0.22UF, M,250V	2	⚠
C807	ECKCNA332MEB	C 3300PF, M,	1	⚠
C808	ECA1VM221	E 220UF, 35V	1	
C809	ECKCNA332MEB	C 3300PF, M,	1	⚠
C812	EC0S2EP471BB	E 470UF, 250V	1	TX-47P500X
C813	ECKD3D681KBP	C 680PF, K, 2KV	1	
C814	EC0S2EP471BB	E 470UF, 250V	1	TX-47P500X

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C815	ECKD3D681KBP	C 680PF, K, 2KV	1	
C816,17	ECKCNA471MBB	C 470PF, M.	2	ECKDNA471MB ⚠
C819	ECKD2H681KB2	C 680PF, K,500V	1	
C820	EC0S2EP471BB	E 470UF, 250V	1	TX-47P500X
C820	ECOS2GP221BB	E 220UF, 400V	1	TX-47P500HM/HQ/HZ
C822	ECOS2GP221BB	E 220UF, 400V	1	TX-47P500HM/HQ/HZ
C822	EC0S2EP471BB	E 470UF, 250V	1	TX-47P500X
C823	ECQF4333JZ	P 0.033UF, J,400V	1	
C829	ECQB1H681JF	P 680PF, J, 50V	1	
C832	ECKD3D102KBP	C 1000PF, K, 2KV	1	
C833	EETHC2C102B	E 1000UF, 160V	1	
C837	EEUFC1E272	E 2700UF, 25V	1	
C839	ECKD3A151KBP	C 150PF, K, 1KV	1	
C840	EEUFC1E821	E 820UF, 25V	1	
C841	EEUFC1E272	E 2700UF, 25V	1	
C842	ECKD3A331KBP	C 330PF, K, 1KV	1	
C859	ECA1HM222	E 2200UF, 50V	1	
C860	ECKD2H471KB2	C 470PF, K,500V	1	
C861	ECA1HM102	E 1000UF, 50V	1	
C862	ECA1EM222	E 2200UF, 25V	1	
C863,64	ECKD3A472KBP	C 4700PF, K, 1KV	2	TX-47P500X
C865,66	ECA2WHG4R7	E 4.7UF, 450V	2	TX-47P500X
C867	ECQB1H473JF	P 0.047UF, J, 50V	1	TX-47P500X
C868	ECQE2A473KF	P 0.047UF, K,250V	1	TX-47P500X
C869	ECA0JM331	E 330UF, 6.3V	1	
C870	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C872	ECA1EM471	E 470UF, 25V	1	
C873	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C874	ECKCNA222MEB	C 2200PF, M	1	⚠
C876	ECJ2VF1H223Z	C 0.022UF, Z, 50V	1	
C878	ECQU2A224MN	P 0.22UF, M,250V	1	⚠
C880	ECA1EM472	E 4700UF, 25V	1	
C883	ECA2WHG100	E 10UF, 450V	1	
C884	ECQV1H104JM	P 0.1UF, J, 50V	1	
C885	ECKF1H101KB	C 100PF, K, 50V	1	
C886	ECCD3D270KGE	C 27PF, K, 2KV	1	
C888	ECKD3A392KBN	C 3900PF, K, 1KV	1	
C889	ECA1CM222	E 2200UF, 16V	1	
C890	ECKD2H102KB2	C 1000PF, K,500V	1	
C891	ECA1CM471	E 470UF, 16V	1	
C893	ECKD3D681KBP	C 680PF, K, 2KV	1	
C894	ECA1VMH470	E 47UF, 35V	1	
C895	ECA1HMH100	E 10UF, 50V	1	
C1014	ECA1CM101	E 100UF, 16V	1	
C1040	ECQB1H223JF	P 0.022UF, J, 50V	1	
C1041	ECA1HM470	E 47UF, 50V	1	
C1043	ECKF1H101KB	C 100PF, K, 50V	1	
C1054	ECCF1H101J	C 100PF, J, 50V	1	
C1101	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1102	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1103-09	ECJ2VF1C104Z	C 0.1UF, Z, 16V	7	
C1112	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1115	ECJ2VB1C104K	C 0.1UF, K, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1116,17	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C1118	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C1119-29	ECJ2VF1C104Z	C 0.1UF, Z, 16V	11	
C1130	EEVHB0G221	E 220UF, 4V	1	
C1131,32	ECJ2XC1H220J	C 22UF, J, 50V	2	ECUM1H220JCN
C1133-36	ECJ2VF1C104Z	C 0.1UF, Z, 16V	4	
C1137	EEVHB0G221	E 220UF, 4V	1	
C1140	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C1142	ECJ2XC1H151J	C 150PF, J, 50V	1	ECUM1H151JCN
C1144	ECJ2XG1H101J	C 100PF, J, 50V	1	
C1146	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1147	ECA1CM101	E 100UF, 16V	1	
C1148	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1150,51	ECJ2VB1C104K	C 0.1UF, K, 16V	2	
C1152,53	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C1154	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1156	ECA1HM100	E 10UF, 50V	1	
C1157,58	TCUY0J335MBM	C 3.3UF, 6.3V	2	F1K0J335A003
C1159,60	EEVHB1C100	E 10UF, 16V	2	
C1161	EEVHB0G221	E 220UF, 4V	1	
C1162	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1163	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1164	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1165	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1166	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1167	EEVHB1C101	E 100UF, 16V	1	EEVHB1C101P
C1168	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1170	ECEA1EKN100	E 10UF, 25V	1	
C1251	ECA1CM101	E 100UF, 16V	1	
C1252	ECA1HM100	E 10UF, 50V	1	
C1253,54	ECJ2VB1C104K	C 0.1UF, K, 16V	2	
C1255	ECA1VM470	E 47UF, 35V	1	
C1290	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1291	ECA1CM471	E 470UF, 16V	1	
C1292,93	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C1294	ECA1CM101	E 100UF, 16V	1	
C1295	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1296	ECA1CM471	E 470UF, 16V	1	
C1300	ECJ1VC1H120J	C 12PF, J, 50V	1	
C1302	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1303	ECJ1VC1H120J	C 12PF, J, 50V	1	
C1306	ECJ1XC1H680J	C 68PF, J, 50V	1	ECUX1H680JCV
C1307	ECJ1XC1H180J	C 18PF, J, 50V	1	ECUX1H180JCV
C1309	ECJ1XC1H181J	C 180PF, J, 50V	1	
C1310	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1312	ECJ1XC1H181J	C 180PF, J, 50V	1	
C1313	TACCN0J105KT	C 1UF, 6.3V	1	
C1315	TACCN0J105KT	C 1UF, 6.3V	1	
C1316-18	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C1319	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1320	ECJ1XC1H060D	C 6PF, D, 50V	1	ECUX1H060DCV
C1322-34	ECJ2VF1C105Z	C 1UF, Z, 16V	13	
C1335	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1336	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1337-41	ECJ2VF1C105Z	C 1UF, Z, 16V	5	
C1342	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1344-54	ECJ2VF1C105Z	C 1UF, Z, 16V	11	
C1355,56	TCUY0J335MBM	C 3.3UF, 6.3V	2	F1K0J335A003
C1357	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1358	ECJ1VB1H182K	C 1800PF, K, 50V	1	
C1359	ECJ1VB1H472K	C 4700PF, K, 50V	1	
C1360	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1361	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1362	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1363	ECJ1XC1H102J	C 1000PF, J, 50V	1	ECUX1H102JCV
C1364	ECJ1XC1H680J	C 68PF, J, 50V	1	ECUX1H680JCV
C1365	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1367	TACCN0J105KT	C 1UF, 6.3V	1	
C1370	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1371	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1372	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1373	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1374	ECJ1VB1H222K	C 2200PF, K, 50V	1	
C1376	ECJ1XC1H680J	C 68PF, J, 50V	1	ECUX1H680JCV
C1377	ECJ1XB1E393K	C 0.039UF, K, 16V	1	
C1378	ECJ1VB1H222K	C 2200PF, K, 50V	1	
C1379	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C1380	TACCN0J105KT	C 1UF, 6.3V	1	
C1381	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1382	ECJ1XB1C393K	C 0.039UF, K, 16V	1	
C1383	TACCN0J105KT	C 1UF, 6.3V	1	
C1384	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1385	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C1386,87	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C1389	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1390,91	TACCN0J105KT	C 1UF, 6.3V	2	
C1392	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1394	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C1395	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1396	EEVHB0G221	E 220UF, 4V	1	
C1397	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1398,99	ECJ1VC1H120J	C 12PF, J, 50V	2	
C1400	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1401	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1404	ECJ1XC1H151J	C 150PF, J, 50V	1	
C1405	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1411-13	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C1414	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1415	ECJ1XC1H060D	C 6PF, D, 50V	1	ECUX1H060DCV
C1417-22	ECJ2VF1C105Z	C 1UF, Z, 16V	6	
C1429	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1430	ECJ1XC1H181J	C 180PF, J, 50V	1	
C1431-33	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C1435	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1437	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1440	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1442	ECJ1VB1H472K	C 4700PF, K, 50V	1	
C1443	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1444,45	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C1448	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1449	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1450-52	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C1455-58	ECJ2VB1C104K	C 0.1UF, K, 16V	4	
C1460	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1462	ECJ1VB1H332K	C 3300PF, K, 50V	1	
C1464	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1465	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1466	ECJ1XC1H680J	C 68PF, J, 50V	1	ECUX1H680JCV
C1467	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1471	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1472	ECJ1XC1H680J	C 68PF, J, 50V	1	ECUX1H680JCV
C1473-75	ECJ2VB1C104K	C 0.1UF, K, 16V	3	
C1477	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1478	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1479,80	EEVHP1C100	E 10UF, 16V	2	
C1481,82	TACCN0J105KT	C 1UF, 6.3V	2	
C1483	EEVHP1E4R7	E 4.7UF, 25V	1	
C1484,85	EEVHP1C100	E 10UF, 16V	2	
C1489	TACCN0J105KT	C 1UF, 6.3V	1	
C1493	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1494,95	EEVHB0G221	E 220UF, 4V	2	
C1496	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1498	EEVHB0G221	E 220UF, 4V	1	
C1499,00	EEVHB0J101	E 100UF, 6.3V	2	EEVHB0J101P
C1501	EEVHB1C470	E 47UF, 16V	1	
C1502,03	EEVHB0J101	E 100UF, 6.3V	2	EEVHB0J101P
C1504	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1505-07	EEVHB0G221	E 220UF, 4V	3	
C1508	EEVHB1C100	E 10UF, 16V	1	
C1510,11	ECJ2VB1C104K	C 0.1UF, K, 16V	2	
C1513-15	ECJ2XB1H103K	C 0.01UF, K, 50V	3	
C1516	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1520	EEVHB0G221	E 220UF, 4V	1	
C1521	EEVHB1C470	E 47UF, 16V	1	
C1522	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1523,24	TACCN0J105KT	C 1UF, 6.3V	2	
C1525	EEVHB1C470	E 47UF, 16V	1	
C1526	EEVHB0G221	E 220UF, 4V	1	
C1527	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1530	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1531,32	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C1534	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1535-38	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C1539	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1540	EEVHB0G221	E 220UF, 4V	1	
C1543	ECA1HM100	E 10UF, 50V	1	
C1544	ECA1CM101	E 100UF, 16V	1	
C1550,51	ECA1CM101	E 100UF, 16V	2	
C1564,65	ECA1HM4R7	E 4.7UF, 50V	2	
C1566	ECA1HM220	E 22UF, 50V	1	
C1568,69	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C1708,09	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1710-12	EEVHB1C100	E 10UF, 16V	3	
C1715	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1718	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1721	ECJ1VB1H222K	C 2200PF, K, 50V	1	
C1725	ECJ1XC1H820J	C 82PF, J, 50V	1	ECUX1H820JCV
C1726,27	ECJ1VB1H103K	C 0.01UF, K, 50V	2	
C1732	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1733	ECJ2VB1C224K	C 0.22UF, K, 16V	1	
C1737,38	ECJ2VB1C224K	C 0.22UF, K, 16V	2	
C1740	TCUY1C225ZFN	C 2.2UF, 16V	1	F1J1C225A083
C1741	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1743	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1746	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1748	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1749	ECJ1VF1H333Z	C 0.033UF, Z, 50V	1	
C1750	EEVHB1C470	E 47UF, 16V	1	
C1751	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1752	TCUY1C225ZFN	C 2.2UF, 16V	1	F1J1C225A083
C1753-56	ECJ1VB1H103K	C 0.01UF, K, 50V	4	
C1760	EEVHB1C470	E 47UF, 16V	1	
C1761	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1768	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1772	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1773-75	EEVHB1C100	E 10UF, 16V	3	
C1780-82	EEVHB1C100	E 10UF, 16V	3	
C1783	ECJ2VB1C224K	C 0.22UF, K, 16V	1	
C1802	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1804	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1805	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1806	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1811	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1813	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1816-18	EEVHB1C470	E 47UF, 16V	3	
C1819,20	ECJ1VB1H103K	C 0.01UF, K, 50V	2	
C1822	EEVHB1C470	E 47UF, 16V	1	
C2007	ECJ2XC1H560J	C 56PF, J, 50V	1	ECUM1H560JCN
C2008,09	ECJ2XC1H470J	C 47PF, J, 50V	2	ECUM1H470JCN
C2010	ECJ2XC1H560J	C 56PF, J, 50V	1	ECUM1H560JCN
C2011	ECJ2XC1H070D	C 7PF, D, 50V	1	ECUM1H070DCN
C2014	ECJ2XC1H010C	C 1PF, C, 50V	1	ECUM1H010CCN
C2015	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2016	ECA1CM101	E 100UF, 16V	1	
C2017	ECJ2XC1H010C	C 1PF, C, 50V	1	ECUM1H010CCN
C2024	ECJ3VB1C474K	C 0.47UF, K, 16V	1	
C2025	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2027	ECA1HM100	E 10UF, 50V	1	
C2028	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2029	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2030	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2031	ECA1CM101	E 100UF, 16V	1	
C2032	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2033	ECA1HM100	E 10UF, 50V	1	
C2034,35	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C2037	ECJ2VF1C105Z	C 1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2038	ECA1HM100	E 10UF, 50V	1	
C2039	ECA1CM101	E 100UF, 16V	1	
C2040	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2041	ECA1HM3R3	E 3.3UF, 50V	1	
C2042-45	ECJ2XB1H102K	C 1000PF, K, 50V	4	
C2224,25	ECEA1HKA100	E 10UF, 50V	2	
C2290	ECEA1HN4R7U	E 4.7UF, 50V	1	
C2291	ECQV1H104JM	P 0.1UF, J, 50V	1	
C2292	ECA0JM222	E 2200UF, 6.3V	1	
C2293	ECA1VM470	E 47UF, 35V	1	
C2294,95	ECA1HM221	E 220UF, 50V	2	
C2296	ECA1CM101	E 100UF, 16V	1	
C2297	ECKF1H472KB	C 4700PF, K, 50V	1	
C2304	ECA1HHG100	E 10UF, 50V	1	
C2305-07	ECA1VM101	E 100UF, 35V	3	
C2308	ECA1HM100	E 10UF, 50V	1	
C2309,10	ECA1VM102	E 1000UF, 35V	2	
C2312	ECQV1H104JM	P 0.1UF, J, 50V	1	
C2313,14	ECQB1H272JF	P 2700PF, J, 50V	2	
C2315	ECA1HM102	E 1000UF, 50V	1	
C2316	ECQV1H104JM	P 0.1UF, J, 50V	1	
C2317	ECA1HM4R7	E 4.7UF, 50V	1	
C2318	ECA1HHG220	E 22UF, 50V	1	
C2319	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C2320	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2321	ECA1CM471	E 470UF, 16V	1	
C2324	ECJ2XB1H152K	C 1500PF, K, 50V	1	
C2325	ECA1HM4R7	E 4.7UF, 50V	1	
C2326	ECJ2VB1H332K	C 3300PF, K, 50V	1	
C2327	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C2328-31	ECJ2XC1H102J	C 1000PF, J, 50V	4	ECUM1H102JCN
C2332	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C2333	ECA50YT2R2K	E 2.2UF, 50V	1	
C2334	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2335	ECA50YT2R2K	E 2.2UF, 50V	1	
C2336	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2337	ECA1CM470	E 47UF, 16V	1	
C2338,39	ECA1HM221	E 220UF, 50V	2	
C2340	ECA1CM101	E 100UF, 16V	1	
C2341	ECA1HM220	E 22UF, 50V	1	
C2342	ECA1CM101	E 100UF, 16V	1	
C2343	ECA1HM100	E 10UF, 50V	1	
C2344,45	ECJ2XB1H472K	C 4700PF, K, 50V	2	
C2349	ECQV1H105JM	P 1UF, J, 50V	1	
C2351	ECA1CM471	E 470UF, 16V	1	
C2352	ECEA1HN2R2U	E 2.2UF, 50V	1	
C2354	ECEA1HN4R7U	E 4.7UF, 50V	1	
C2355	ECQV1H105JM	P 1UF, J, 50V	1	
C2356	ECQV1H104JM	P 0.1UF, J, 50V	1	
C2359	ECA1HM100	E 10UF, 50V	1	
C2372,73	ECEA1HNR33U	E 0.33UF, 50V	2	
C2378	ECA0JM222	E 2200UF, 6.3V	1	
C2379	ECA1CM101	E 100UF, 16V	1	
C2381	ECA1HM010	E 1UF, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2382	ECKF1H472KB	C 4700PF, K, 50V	1	
C2385	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C2587	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2590	ECA1CM471	E 470UF, 16V	1	
C2702	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2703	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2704	ECA1EM471	E 470UF, 25V	1	
C2707	ECA1CHG471	E 470UF, 16V	1	
C2708	EEUFC1A471	E 470UF, 10V	1	
C2711	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2713	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2716	EEUFC1A471	E 470UF, 10V	1	
C2719,20	ECA1CM471	E 470UF, 16V	2	
C2722,23	ECJ2VF1H104Z	C 0.1UF, Z, 50V	2	
C2726	ECA1EHG471	E 470UF, 25V	1	
C2730,31	EEUFC1E471	E 470UF, 25V	2	
C2732	EEUFC1A471	E 470UF, 10V	1	
C2733	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2734	ECA1EM471	E 470UF, 25V	1	
C2737	ECA1CM471	E 470UF, 16V	1	
C2738	ECA1CM101	E 100UF, 16V	1	
C2739	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2740	ECA1CM471	E 470UF, 16V	1	
C2750,51	TACCN0J105KT	C 1UF, 6.3V	2	
C2761	ECJ2XC1H101J	C 100PF, J, 50V	1	
C2901-03	ECKF1H103ZF	C 0.01UF, Z, 50V	3	
C2904	ECA1CM101	E 100UF, 16V	1	
C2905	ECA1VM101	E 100UF, 35V	1	
C2906	ECA1CM101	E 100UF, 16V	1	
C2907	ECCF1H121JC	C 120PF, J, 50V	1	ECCF1H121JC4
C2908	ECA1VM101	E 100UF, 35V	1	
C2909,10	ECA1HM100	E 10UF, 50V	2	
C2913	ECQM2103KZ	P 0.01UF, K,200V	1	
C2914	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C2915	ECQM2103KZ	P 0.01UF, K,200V	1	
C2916	ECA2AM100	E 10UF, 100V	1	
C2917	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C2918	ECA1CM101	E 100UF, 16V	1	
C2919	ECA2CM100	E 10UF, 160V	1	
C2920	ECA1CM101	E 100UF, 16V	1	
C2921	ECA1CM221	E 220UF, 16V	1	
C2943	ECQM2103KZ	P 0.01UF, K,200V	1	
C2944	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C2945	ECQM2103KZ	P 0.01UF, K,200V	1	
C2946	ECA2AM100	E 10UF, 100V	1	
C2947	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C2948	ECA1CM101	E 100UF, 16V	1	
C2949	ECA2CM100	E 10UF, 160V	1	
C2950	ECA1CM101	E 100UF, 16V	1	
C2951	ECA1CM221	E 220UF, 16V	1	
C2953	ECA1VM101	E 100UF, 35V	1	
C2954	ECA1HM100	E 10UF, 50V	1	
C2973	ECQM2103KZ	P 0.01UF, K,200V	1	
C2974	ECKF1H103ZF	C 0.01UF, Z, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2975	ECQM2103KZ	P 0.01UF, K,200V	1	
C2976	ECA2AM100	E 10UF, 100V	1	
C2977	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C2978	ECA1CM101	E 100UF, 16V	1	
C2979	ECA2CM100	E 10UF, 160V	1	
C2980	ECA1CM101	E 100UF, 16V	1	
C2981	ECA1CM221	E 220UF, 16V	1	
C2983	ECA1VM101	E 100UF, 35V	1	
C2984	ECA1HM100	E 10UF, 50V	1	
C3001	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3002	ECA1CM101	E 100UF, 16V	1	
C3006	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3009	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3012-17	ECJ2VF1C105Z	C 1UF, Z, 16V	6	
C3018	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C3020	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3021	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C3022,23	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C3024	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3025	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C3026-29	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C3030	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C3032,33	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3034	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3035	ECA1CM101	E 100UF, 16V	1	
C3036	ECA1CM470	E 47UF, 16V	1	
C3037,38	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C3042-45	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C3046	ECA1CM101	E 100UF, 16V	1	
C3047-49	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C3050	ECA1CM221	E 220UF, 16V	1	
C3051	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3053,54	ECA1HM010	E 1UF, 50V	2	
C3057,58	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3061-64	ECA1HM100	E 10UF, 50V	4	
C3067	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C3068	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3069	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3077,78	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C3079	ECEA1CN470U	E 47UF, 16V	1	
C3080	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3101-04	ECQB1H563JF	P 0.056UF, J, 50V	4	
C3107	ECKF1H561KB	C 560PF, K, 50V	1	
C3109	ECKF1H561KB	C 560PF, K, 50V	1	
C3112	ECJ2XC1H680J	C 68PF, J, 50V	1	ECUM1H680JCN
C3113,14	ECA1CM470	E 47UF, 16V	2	
C3115	ECEA1CN470U	E 47UF, 16V	1	
C3301-03	ECJ2VF1C104Z	C 0.1UF, Z, 16V	3	
C3323	ECA1HHG100	E 10UF, 50V	1	
C3352	ECA2AM220	E 22UF, 100V	1	
C3353	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C3362	ECA2AM220	E 22UF, 100V	1	
C3363	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C3372	ECA2AM220	E 22UF, 100V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3373	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C3410	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3412	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3414,15	ECJ2XC1H561J	C 560PF, J, 50V	2	
C3417	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3419	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3420	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3422	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3424	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3426	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3430	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3450,51	ECEA1AKA221	E 220UF, 10V	2	
C3452,53	ECEA1CKA101	E 100UF, 16V	2	
C6715	ECKD3D681KBP	C 680PF, K, 2KV	1	
C6718	ECCD3D220KGE	C 22PF, K, 2KV	1	
C6731,32	ECKD3D681KBP	C 680PF, K, 2KV	2	
C7001	ECA1HHG2R2	E 2.2UF, 50V	1	
C7002,03	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7004,05	ECA1VHG101	E 100UF, 35V	2	
C7006	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7007	ECJ2XC1H220J	C 22UF, J, 50V	1	ECUM1H220JCN
C7008	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7009	ECJ2XC1H220J	C 22UF, J, 50V	1	ECUM1H220JCN
C7010	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7011	ECJ2XC1H220J	C 22UF, J, 50V	1	ECUM1H220JCN
C7012	ECA1HHG2R2	E 2.2UF, 50V	1	
C7013,14	ECA1VHG101	E 100UF, 35V	2	
C7015,16	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7017	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7018	ECJ2XC1H220J	C 22UF, J, 50V	1	ECUM1H220JCN
C7019	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7020	ECJ2XC1H220J	C 22UF, J, 50V	1	ECUM1H220JCN
C7021	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7022	ECJ2XC1H220J	C 22UF, J, 50V	1	ECUM1H220JCN
C7090-95	ECJ2XB1H102K	C 1000PF, K, 50V	6	
C7101	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7102	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7103	ECA1CM222	E 2200UF, 16V	1	
C7104	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7105-07	ECJ2XC1H101J	C 100PF, J, 50V	3	
C7108	ECA1CM101	E 100UF, 16V	1	
C7109-11	ECEA1CKA470	E 47UF, 16V	3	
C7112,13	ECJ2XC1H561J	C 560PF, J, 50V	2	
C7114	ECJ2VC1H821J	C 820PF, J, 50V	1	
C7115-19	ECJ2VF1H103Z	C 0.01UF, Z, 50V	5	
C7120	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7121-25	ECJ2VF1H103Z	C 0.01UF, Z, 50V	5	
C7126-28	ECEA1CKA470	E 47UF, 16V	3	
C7129,30	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7131-34	ECJ2XC1H561J	C 560PF, J, 50V	4	
C7135	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7136	ECA1CM101	E 100UF, 16V	1	
C7137-40	ECJ2XC1H101J	C 100PF, J, 50V	4	
C7141	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7142	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7143-48	ECJ2VF1C105Z	C 1UF, Z, 16V	6	
C7149	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7150	ECA1VM470	E 47UF, 35V	1	
C7151-53	ECJ2VF1H103Z	C 0.01UF, Z, 50V	3	
C7154	ECA1CM101	E 100UF, 16V	1	
C7155-57	ECEA1CKA470	E 47UF, 16V	3	
C7158-61	ECJ2XC1H681J	C 680PF, J, 50V	4	
C7162	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7163,64	ECJ2XC1H681J	C 680PF, J, 50V	2	
C7165	ECA1VM470	E 47UF, 35V	1	
C7166	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7167	ECEA1CKA470	E 47UF, 16V	1	
C7168	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7169,70	ECEA1CKA470	E 47UF, 16V	2	
C7171,72	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7173	ECJ2VB1H273K	C 0.027UF, K, 50V	1	
C7174-76	ECJ2VF1H103Z	C 0.01UF, Z, 50V	3	
C7188-90	ECJ2XC1H560J	C 56PF, J, 50V	3	ECUM1H560JCN
C7191	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7193,94	ECA1CM101	E 100UF, 16V	2	
C7195	ECJ2XC1H101J	C 100PF, J, 50V	1	
C7196	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C7197	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7709-11	ECJ2XC1H271J	C 270PF, J, 50V	3	
C7712	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C7713	ECA1EM471	E 470UF, 25V	1	
C7714	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7715	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7716	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7717	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7718	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7719-21	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7725	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C7726	ECA1CM101	E 100UF, 16V	1	
C9301-03	ECJ2VF1H103Z	C 0.01UF, Z, 50V	3	
C9311	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C9320	ECJ2XB1H152K	C 1500PF, K, 50V	1	
C9322-24	ECJ2VF1H103Z	C 0.01UF, Z, 50V	3	
C9351	ECA1CM101	E 100UF, 16V	1	
C9352,53	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C9601	ECA1VMH470	E 47UF, 35V	1	
C9602	ECJ2XC1H101J	C 100PF, J, 50V	1	
C9603	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C9604	ECA1HM220	E 22UF, 50V	1	
C9611	ECWH16473JV	P 0.047PF,J,1.6KV	1	
C9612	ECA1CM101	E 100UF, 16V	1	
C9613	ECEA1EN101U	E 100UF, 25V	1	
C9614	ECJ2XC1H471J	C 470PF, J, 50V	1	
C9615	ECQB1H223JF	P 0.022UF, J, 50V	1	
D001	MA4020	ZENER DIODE	1	MAZ4020
D1	TJSF20016	16P CONNECTOR	1	K1KB16A00050
D002	MA4020	ZENER DIODE	1	MAZ4020

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D2	TJSF20016	16P CONNECTOR	1	K1KB16A00050
D003	MA3150H	ZENER DIODE	1	MAZ31500H
D3	TJSF20016	16P CONNECTOR	1	K1KB16A00050
D4	K1KA03A00172	3P CONNECTOR	1	
D004	MA3150H	ZENER DIODE	1	MAZ31500H
D5	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
D6	TJSF20016	16P CONNECTOR	1	K1KB16A00050
D8	TJS3A9670	6P CONNECTOR	1	K1KA06A00179
D010	MA152K	DIODE	1	MA3X152K
D12	K1KA03A00172	3P CONNECTOR	1	
D13-15	TJS3A9650	4P CONNECTOR	3	K1KA04A00194
D40	TJS5A9420	8P CONNECTOR	1	K1KB08A00054
D051,52	MA4020	ZENER DIODE	2	MAZ4020
D053	MA152K	DIODE	1	MA3X152K
D60	TJS5A9420	8P CONNECTOR	1	K1KB08A00054
D70	TJS5A9420	8P CONNECTOR	1	K1KB08A00054
D353,54	MA165	DIODE	2	MA2C165
D357	MA165	DIODE	1	MA2C165
D360-63	MA188	DIODE	4	MA2C188
D366	AM01Z	DIODE	1	B0EAKC000002
D367-70	MA188	DIODE	4	MA2C188
D373,74	MA165	DIODE	2	MA2C165
D377	MA165	DIODE	1	MA2C165
D387-90	MA188	DIODE	4	MA2C188
D393,94	MA165	DIODE	2	MA2C165
D397	MA165	DIODE	1	MA2C165
D452	MA152K	DIODE	1	MA3X152K
D453	EU02A	DIODE	1	B0HAMR000047
D454,55	MA152K	DIODE	2	MA3X152K
D456	ERA22-02	DIODE	1	B0HAGM000001
D457-60	AM01Z	DIODE	4	B0EAKC000002
D461	MA3030H	ZENER DIODE	1	
D462	MA721	DIODE	1	MA3X721
D465	MA3039H	ZENER DIODE	1	MAZ30390H
D500,01	D1NL40V70	DIODE	2	B0HALP000002
D502	MA4150M	ZENER DIODE	1	MAZ41500M
D503	FMV-3GU	DIODE	1	
D504	MA4270M	ZENER DIODE	1	MAZ42700M
D505	MA4030M	ZENER DIODE	1	MAZ40300M
D510,11	D1NL40V70	DIODE	2	B0HALP000002
D512-14	MA182	DIODE	3	MA2B182
D519	AU02Z	DIODE	1	B0HAKM000004
D530	MA165	DIODE	1	MA2C165
D701	D1NL40V70	DIODE	1	B0HALP000002
D702	MA4120M	ZENER DIODE	1	MAZ41200M
D801	D4SB80Z	DIODE	1	B0EBNT000004
D805	MA2240B	ZENER DIODE	1	MAZ22400B
D807	B3PAA0000153	DIODE	1	⚠
D809	MA2082-A	ZENER DIODE	1	MAZ20820A
D811	MA2082-A	ZENER DIODE	1	MAZ20820A
D813	ERDS2TC0	C 0 OHM, 1/4W	1	
D815	MA4220M	ZENER DIODE	1	MAZ42200M
D816	MA165	DIODE	1	MA2C165
D819-21	ERA22-04	DIODE	3	B0HAGP000001

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D822,23	ERC13-08	DIODE	2	B0EAKT000022 TX-47P500X
D828	FML-12S	DIODE	1	
D829	ERC91-02	DIODE	1	B0HAPM000003
D831	FMGG2CS	DIODE	1	B0HAPV000011
D851	FML22S	DIODE	1	B0HFRJ000011
D860	FMGG26S	DIODE	1	B0HANR000014
D869,70	MA152K	DIODE	2	MA3X152K
D871	ERA22-02	DIODE	1	B0HAGM000001
D875,76	ERZV14D511	VARISTOR	2	
D884	TLP721FD4GR	PHOTO COUPLER	1	B3PAA0000222 ⚠
D885	MA4056H	ZENER DIODE	1	MAZ40560H
D886	MA165	DIODE	1	MA2C165
D890	EU02	DIODE	1	
D893	ERC13-08	DIODE	1	B0EAKT000022
D894	MA152K	DIODE	1	MA3X152K
D1011	LNG201RFC	DIODE	1	
D1012,13	MA4056M	ZENER DIODE	2	MAZ40560M
D1152,53	MA152K	DIODE	2	MA3X152K
D1154	MA3039H	ZENER DIODE	1	MAZ30390H
D1301	MA152K	DIODE	1	MA3X152K
D1304	MA152WK	DIODE	1	MA3X152E
D1305	MA704A	DIODE	1	MA3X704A
D1306	MA3062M	ZENER DIODE	1	MAZ30620M
D1307	MA3091M	ZENER DIODE	1	MAZ30910M
D1308,09	MA152K	DIODE	2	MA3X152K
D1310-12	MA3062M	ZENER DIODE	3	MAZ30620M
D1313	MA3043M	ZENER DIODE	1	MAZ30430M
D1315	MA3043M	ZENER DIODE	1	MAZ30430M
D1354	MA152WK	DIODE	1	MA3X152E
D2040-42	MA152K	DIODE	3	MA3X152K
D2302	MTZJ5.6B	ZENER DIODE	1	
D2304	MA152K	DIODE	1	MA3X152K
D2305	MA3360M	ZENER DIODE	1	MAZ33600M
D2308	MA4360M	ZENER DIODE	1	MAZ43600M
D2310	MA3360M	ZENER DIODE	1	MAZ33600M
D2312	MA3130H	ZENER DIODE	1	
D2313,14	MA152K	DIODE	2	MA3X152K
D2316	MA152K	DIODE	1	MA3X152K
D2322	RU3YX-M	DIODE	1	
D2361	MTZJ5.6B	ZENER DIODE	1	
D2711	RK34	DIODE	1	
D2712	AK04	DIODE	1	B0JAMC000003
D2713,14	RK34	DIODE	2	
D2902	TVSSR2KN	DIODE	1	B0ZAZ0000041
D2903	MA188	DIODE	1	MA2C188
D2942	TVSSR2KN	DIODE	1	B0ZAZ0000041
D2943	MA188	DIODE	1	MA2C188
D2972	TVSSR2KN	DIODE	1	B0ZAZ0000041
D2973	MA188	DIODE	1	MA2C188
D3003,04	MA3091L	ZENER DIODE	2	
D3007	MA157A	DIODE	1	MA3X157A
D3008-12	MA3091	ZENER DIODE	5	MAZ3091
D3050	MA3120M	ZENER DIODE	1	MAZ31200M
D3351,52	MA165	DIODE	2	MA2C165

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D3361,62	MA165	DIODE	2	MA2C165
D3371,72	MA165	DIODE	2	MA2C165
D3410	MA152K	DIODE	1	MA3X152K
D3411	MA3020	ZENER DIODE	1	
D6705	EG01C	DIODE	1	B0HAGV000001
D6710	MA2082-A	ZENER DIODE	1	MAZ20820A
D6712	ERC13-08	DIODE	1	B0EAKT000022
D6717,18	ERC13-08	DIODE	2	B0EAKT000022
D7101	MA157A	DIODE	1	MA3X157A
D7102	MA152WK	DIODE	1	MA3X152E
D7103	MA152K	DIODE	1	MA3X152K
D7707	MA152WK	DIODE	1	MA3X152E
D7708	MA152K	DIODE	1	MA3X152K
D7709	MA152WK	DIODE	1	MA3X152E
D9350,51	MA3051M	ZENER DIODE	2	MAZ30510M
D9352	MA152K	DIODE	1	MA3X152K
D9601	MA3075H	ZENER DIODE	1	MAZ30750H
D9602	RP1H	DIODE	1	B0HACW000001
D9603,04	MA3030H	ZENER DIODE	2	
D9605	MA29B	DIODE	1	
D9606	MA152K	DIODE	1	MA3X152K
D9607	MA4062L	ZENER DIODE	1	MAZ40620L
F801	XBA2C50TR0	FUSE 250V 5A	1	K5D502BK0003 ⚠
F801-1,-2	EYF-52BC	FUSE HOLDER	2	
H1,H2	TJSF17425	25P CONNECTOR	2	K1KA25B00004
IC051,52	AN7805F	LINEAR IC	2	
IC451	LA7845N	LINEAR IC	1	C1AA00000529
IC459	TC74HC221AF	MOS IC (CMOS S/LOGIC)	1	C0JBAM000065
IC501	NJM2903M	INTEGRATED CIRCUIT	1	C0BBBA000019
IC801	STRF6656LF53	LINEAR IC	1	C5HABZZ00014
IC802	STR83145LF55	LINEAR IC	1	TX-47P500X
IC808	SE139N	LINEAR IC	1	
IC810	AN7812	LINEAR IC	1	
IC881	MIP2810001TV	IC (LOGIC)	1	
IC1101	SDA6000	INTEGRATED CIRCUIT	1	
IC1102	TVRJ652-1	ROM IC	1	C3FBKD000104
IC1104	TVRJ653-1	ROM IC (EEPROM 16KBIT)	1	C3EAGC000012
IC1105	S-80843ALY-Z	LINEAR IC	1	C0EAH0000067
IC1106	TVSA0500	IC	1	C3ABMG000074
IC1107	TC7MBD3245KL	IC	1	C0JBAZ001839
IC1108	AN78L05	LINEAR IC	1	
IC1109	PST9119NR	INTEGRATED CIRCUIT	1	
IC1110	PST9128NR	IC (LOGIC)	1	C0EBE0000066
IC1111	TC7SH32FU	IC	1	
IC1251	SI-3033C	HYBRID IC	1	C0DAEGG00007
IC1252	PQ30RV21A	LINEAR IC	1	C0DAEZH00008
IC1253	M62392FP	IC	1	C0FBBD000083
IC1254	PST9128NR	IC (LOGIC)	1	C0EBE0000066
IC1301	C1AB00001494	IC	1	
IC1304	C1AB00001494	IC	1	
IC1305	SDA9415	INTEGRATED CIRCUIT	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC1306-08	C0CBABB00029	IC	3	
IC1310	TC7WH241FU	MOS IC (CMOS S/LOGIC)	1	C0JBAZ001263
IC1311	C0CBABB00029	IC	1	
IC1312	NJM2904V	INTEGRATED CIRCUIT	1	C0ABBA000084
IC1314	NJM2904M	LINEAR IC	1	C0ABBA000021
IC1315	AN5394FB	IC	1	
IC1316	TVSA0500	IC	1	C3ABMG000074
IC1317	C0CBABB00029	IC	1	
IC1318	TC74HC04AF	MOS IC (CMOS S/LOGIC)	1	C0JBAB000153
IC1701	AN5395FBP	LINEAR IC	1	
IC1703,04	M52055FP	LINEAR IC	2	C1AB00000734
IC1705,06	CXA1315M	LINEAR IC	2	C1AB00000440
IC2001	TVSA0431	IC	1	
IC2301	TA8200AH	LINEAR IC	1	C1AA00000348
IC2302	AN7108	LINEAR IC	1	
IC2304	AN7108	LINEAR IC	1	
IC2705,06	PQ1CG21H2RZ	INTEGRATED CIRCUIT	2	C0DACMG00001
IC2707	AN7808	LINEAR IC	1	
IC2708	SI-8090K	HYBRID IC	1	C0DAAHH00020
IC2709	PQ1CG21H2RZ	INTEGRATED CIRCUIT	1	C0DACMG00001
IC2710	SI-3033C	HYBRID IC	1	C0DAEGG00007
IC3001	CXA2069Q	LINEAR IC	1	C1AB00000459
IC3002	TDA8601T/C1	IC	1	
IC3003	CXA1211M	LINEAR IC	1	C1AB00000013
IC3004,05	C0ZBZ0000451	IC	2	
IC7001,02	STK392-110	LINEAR IC	2	C5AA00000108
IC7101	AN78L05M	LINEAR IC	1	
IC7102	TVRJ591	ROM IC	1	24LC64T-I/SN
IC7103	TC7WH04FU	MOS IC (CMOS S/LOGIC)	1	
IC7104	C0FBBH000040	IC	1	
IC7105,06	TL084CNS	IC	2	C0AAFB000011
IC7107	C1AB00001220	IC	1	
IC7108	AN78L12M	LINEAR IC	1	
IC7109	AN79L12M	IC	1	
IC7110	BA7603F	IC	1	
IC7121	CXA1875AM	LINEAR IC	1	C0FBBD000017
IC7702	CXA1315M	LINEAR IC	1	C1AB00000440
IC7703	AN6912S	IC	1	
IC9351	AN78N09	LINEAR IC	1	
IC9601	AN6562S	LINEAR IC	1	
J10	ERD25TC0	C 0 OHM, 1/4W	1	
JA1,A2	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
JA4-A9	ERJ6GEY0R00	M 0 OHM,J,1/10W	6	
JA12	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JA14-21	ERJ6GEY0R00	M 0 OHM,J,1/10W	8	
JA23-25	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
JK351	TJSC00700	CRT SOCKET	1	K3B10CA00006 ⚠
JK371	TJSC00700	CRT SOCKET	1	K3B10CA00006 ⚠
JK391	TJSC00700	CRT SOCKET	1	K3B10CA00006 ⚠
JK3102	TJB4G636	TERMINAL	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
JK3401	TJB4G639	TERMINAL	1	
JS12	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JS14-18	ERJ6GEY0R00	M 0 OHM,J,1/10W	5	
JS24	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JS27	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JS32,33	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
JS99	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JS7102,03	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
JS7106	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA5-A7	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
JSA22	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA24	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA30	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA33-36	ERJ6GEY0R00	M 0 OHM,J,1/10W	4	
JSA42	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA50	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA65,66	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
JSA68	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA70	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA73	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA78	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA84	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA92-97	ERJ6GEY0R00	M 0 OHM,J,1/10W	6	
JSA101	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSDG4	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSDG6	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSDG12	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSD14	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSDG16-18	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
JSDG18	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSDG27	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSDG57-61	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
JSDG71-75	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
JSDG79-82	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
JSDG90	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSDG232-37	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
JSDG242-47	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
JSDG250	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSH1-H6	ERJ6GEY0R00	M 0 OHM,J,1/10W	6	
JSU3	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
L002,03	ELESE2R2KA	PEAKING COIL	2	
L008,09	EXCELDR35C	BEAD CHOKE	2	
L053	EXCELDR35C	BEAD CHOKE	1	
L055,56	ELESE2R2KA	PEAKING COIL	2	
L351	ELEBD101KA	PEAKING COIL	1	
L352	ELESE100JA	PEAKING COIL	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L353	ELESE1R0JA	PEAKING COIL	1	ELESE4R7JA
L354	ELESE6R8JA	PEAKING COIL	1	
L371	ELEBD101KA	PEAKING COIL	1	
L372	ELESE100JA	PEAKING COIL	1	
L373	ELESE4R7KA	PEAKING COIL	1	
L374	ELESE6R8JA	PEAKING COIL	1	
L391	ELEBD101KA	PEAKING COIL	1	
L392	ELESE150JA	PEAKING COIL	1	
L393	ELESE6R8JA	PEAKING COIL	1	
L394	ELESE100JA	PEAKING COIL	1	
L414	ELESE470KA	PEAKING COIL	1	
L452,53	EXCELDR35C	BEAD CHOKE	2	
L503	EXCELSA35	BEAD CHOKE	1	
L505	EXCELSA24	BEAD CHOKE	1	
L506-08	EXCELDR25C	BEAD CHOKE	3	
L510	TSKA064	BEAD CORE	1	J0JKB0000011
L511	EXCELSA24	BEAD CHOKE	1	
L512	TSKA064	BEAD CORE	1	J0JKB0000011
L531	EXCELDR35C	BEAD CHOKE	1	
L555	ELH5L718	HORIZONTAL COIL	1	
L701	TALFP15B222K	INDUCTION COIL	1	
L702	ELC18B121F	CHOKE COIL	1	
L703	EXCELSA35	BEAD CHOKE	1	
L704	EXCELDR35C	BEAD CHOKE	1	
L815,16	EXCELSA39	BEAD CHOKE	2	
L818	EXCELSA35	BEAD CHOKE	1	
L820	EXCELSA24	BEAD CHOKE	1	
L822	EXCELDR35C	BEAD CHOKE	1	
L827,28	TALL08N220KA	INDUCTION COIL	2	G0C220K00013
L830	EXCELSA35	BEAD CHOKE	1	
L851	EXCELSA35	BEAD CHOKE	1	
L857	EXCELSA35	BEAD CHOKE	1	
L861	TLUADTB470K	INDUCTION COIL	1	G0A470GA0017
L862	TALL08N101KA	INDUCTION COIL	1	G0A101EA0008
L870	ELF24V030A	LINE FILTER	1	TX-47P500X ⚠
L872	ELF24V032B	LINE FILTER	1	TX-47P500X ⚠
L872	ELF24V019A	LINE FILTER	1	TX-47P50HM/HQ/HZ ⚠
L873	ELF24V018A	LINE FILTER	1	TX-47P50HM/HQ/HZ ⚠
L873	ELF24V030A	LINE FILTER	1	TX-47P500X ⚠
L874	EXCELSA35	BEAD CHOKE	1	
L880	EXCELSA35	BEAD CHOKE	1	
L883	TALL08N181KA	CHIP INDUCTOR COIL	1	G0A181EA0008
L1052	EXCELSA35	BEAD CHOKE	1	
L1101	ERDS2TC0	C 0 OHM, 1/4W	1	
L1103,04	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L1106	ELESE4R7JA	PEAKING COIL	1	
L1107-10	TALC325T4R7M	CHIP INDUCTOR COIL	4	
L1115	TALC325T3R3M	CHIP INDUCTOR COIL	1	
L1116	TALC325T4R7M	CHIP INDUCTOR COIL	1	
L1300	TALC325T4R7M	CHIP INDUCTOR COIL	1	
L1303	TALC168T2R2K	CHIP INDUCTOR COIL	1	
L1304	TALC325T4R7M	CHIP INDUCTOR COIL	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L1305	TALC168T3R3K	CHIP INDUCTOR COIL	1	
L1306	TALC325T4R7M	CHIP INDUCTOR COIL	1	
L1307	ERDS2TC0	C 0 OHM, 1/4W	1	
L1308,09	G1C100KA0008	INDUCTOR COIL	2	
L1310-15	TALC325T4R7M	CHIP INDUCTOR COIL	6	
L1317	TALC168T6R8K	CHIP INDUCTOR COIL	1	
L1318,19	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L1323,24	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L1330	ELJPA330KB	CHIP INDUCTOR	1	
L1702,03	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L1705,06	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L1709-11	TALC325T4R7M	CHIP INDUCTOR COIL	3	
L1722	TALC168T8R2K	CHIP INDUCTOR COIL	1	
L1723	TALC168T2R7K	CHIP INDUCTOR COIL	1	
L2001,02	EXCELDR35C	BEAD CHOKE	2	
L2004	ELESE6R8KA	PEAKING COIL	1	
L2005	EXCELDR35C	BEAD CHOKE	1	
L2007,08	EXCELDR35C	BEAD CHOKE	2	
L2009,10	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L2278	EXCELSA35	BEAD CHOKE	1	
L2302	TLS159054E	NETWORK COIL	1	G0A5R0H00003
L2303-05	EXCELSA35	BEAD CHOKE	3	
L2306	TLS159054E	NETWORK COIL	1	G0A5R0H00003
L2307-10	EXCELSA35	BEAD CHOKE	4	
L2323	EXCELDR35C	BEAD CHOKE	1	
L2523-26	ELESE6R8KA	PEAKING COIL	4	
L2527	EXCELSA35	BEAD CHOKE	1	
L2703	EXCELDR35C	BEAD CHOKE	1	
L2704	TALL08N330KA	INDUCTION COIL	1	G0A330GA0011
L2705	EXCELDR35C	BEAD CHOKE	1	
L2706	TAL10RP151LB	INDUCTION COIL	1	G0ZZ00001908
L2707	TALL08N470KA	INDUCTION COIL	1	G0A470GA0011
L2708	EXCELDR35C	BEAD CHOKE	1	
L2709	TLPF095	CHOKE COIL	1	G0A221GA0001
L2710	EXCELDR35C	BEAD CHOKE	1	
L2712	TAL10RP151LB	INDUCTION COIL	1	G0ZZ00001908
L2713-15	EXCELDR35C	BEAD CHOKE	3	
L2716,17	TALL08N330KA	INDUCTION COIL	2	G0A330GA0011
L2718,19	TLPF095	CHOKE COIL	2	G0A221GA0001
L2722-25	EXCELDR35C	BEAD CHOKE	4	
L2727	EXCELDR35C	BEAD CHOKE	1	
L2729	EXCELDR35C	BEAD CHOKE	1	
L2730	TALL08N680KA	INDUCTION COIL	1	G0A680GA0011
L2732	EXCELDR35C	BEAD CHOKE	1	
L2734,35	EXCELDR35C	BEAD CHOKE	2	
L2736-43	EXCML45A910H	BEAD CHOKE	8	
L2744	EXCCL4532U1	BEAD CHOKE	1	
L2901-03	EXCELSA35	BEAD CHOKE	3	
L2904	TLUABTA560K	PEAKING COIL	1	G0C560K00004
L2941-43	EXCELSA35	BEAD CHOKE	3	
L2944	TLUABTA560K	PEAKING COIL	1	G0C560K00004
L2971-73	EXCELSA35	BEAD CHOKE	3	
L2974	TLUABTA560K	PEAKING COIL	1	G0C560K00004
L3002,03	ERDS2TC0	C 0 OHM, 1/4W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L3004	ELESE4R7KA	PEAKING COIL	1	
L3050	ELESE221KA	PEAKING COIL	1	
L3403,04	ELESE1R5KA	PEAKING COIL	2	
L3415	EXCELDR35C	BEAD CHOKE	1	
L3420	ELESE4R7JA	PEAKING COIL	1	
L3424	EXCELDR25C	BEAD CHOKE	1	
L6719,20	EXCELDR25C	BEAD CHOKE	2	
L7001-06	EXCELSA39	BEAD CHOKE	6	
L7007,08	ELJPA100KB	CHIP INDUCTOR	2	
L7704	ELESE100JA	PEAKING COIL	1	
LB1	TJS3A9900	10P CONNECTOR	1	K1KA10A00218
LB2	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
LC1101,02	TLK212T256AL	EMI FILTER	2	J0HAAB000012
LC1104-06	TLK212T256AL	EMI FILTER	3	J0HAAB000012
LC1107-09	ELKE103FA	NOISE FILTER	3	
LC1110-13	TLK212T256AL	EMI FILTER	4	J0HAAB000012
LC1114	TLK20LFA224M	EMI FILTER	1	J0HABB000004
LC1115-20	TLK20LFA103M	EMI FILTER	6	
LC1121-24	TLK20LFA224M	EMI FILTER	4	J0HABB000004
LC1125-28	TLK20LFA103M	EMI FILTER	4	
LC1130-34	TLK20LFA103M	EMI FILTER	5	
LC1135	TLK212T256AL	EMI FILTER	1	J0HAAB000012
LC1136-39	TLK20LFA103M	EMI FILTER	4	
LC1140	TLK212T256AL	EMI FILTER	1	J0HAAB000012
LC1141-43	TLK20LFA103M	EMI FILTER	3	
LC1144-46	TLK212T256AL	EMI FILTER	3	J0HAAB000012
LC1147	ELKE103FA	NOISE FILTER	1	
LC1300-05	TLK20LFA224M	EMI FILTER	6	J0HABB000004
LC1312	TLK20LFA223M	EMI FILTER	1	J0HABB000003
LC1314-19	TLK20LFA223M	EMI FILTER	6	J0HABB000003
LC1320	TLK20LFA224M	EMI FILTER	1	J0HABB000004
LC1321	TLK20LFA223M	EMI FILTER	1	J0HABB000003
LC1323	TLK20LFA224M	EMI FILTER	1	J0HABB000004
LC1324,25	TLK20LFA223M	EMI FILTER	2	J0HABB000003
LC1326-28	TLK20LFA224M	EMI FILTER	3	J0HABB000004
LC1329-33	ELKE103FA	NOISE FILTER	5	
LG1	TJS3A9680	7P CONNECTOR	1	K1KA07A00095
LG2	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
LG3	TJS3A9910	11P CONNECTOR	1	K1KA11A00059
LG4	TJS3A9900	10P CONNECTOR	1	K1KA10A00218
LR1	TJS3A9910	11P CONNECTOR	1	K1KA11A00059
LR2	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
M1	TJS169610	4P CONNECTOR	1	K1KA04B00005
M11	TJS3A9660	5P CONNECTOR	1	K1KA05A00138
M12	TJS3A9920	12P CONNECTOR	1	K1KA12A00156
M13	TJS3A9680	7P CONNECTOR	1	K1KA07A00095
P2	TJS169700	5P CONNECTOR	1	K1KA05A00090
P4	TJS3A9640	3P CONNECTOR	1	K1KA03A00171

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
P40	TJS3A9140	CONNECTOR	1	K1KA08B00121
P50	TJS3A8010	3P CONNECTOR	1	K1KB03B00009
P60	TJS3A9140	CONNECTOR	1	K1KA08B00121
P70	TJS3A9140	CONNECTOR	1	K1KA08B00121
Q002	2SB709A	TRANSISTOR	1	2SB0709A
Q052	2SB709A	TRANSISTOR	1	2SB0709A
Q353	2SC3942	TRANSISTOR	1	
Q354	2SC3790E	TRANSISTOR	1	B1BAAN000024
Q355,56	2SA1480	TRANSISTOR	2	
Q373	2SC3942	TRANSISTOR	1	
Q374	2SC3790E	TRANSISTOR	1	B1BAAN000024
Q375,76	2SA1480	TRANSISTOR	2	
Q393	2SC3942	TRANSISTOR	1	
Q394	2SC3790E	TRANSISTOR	1	B1BAAN000024
Q395,96	2SA1480	TRANSISTOR	2	
Q451	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q460-63	2SD601A-R	TRANSISTOR	4	2SD0601AR
Q464	2SB709A	TRANSISTOR	1	2SB0709A
Q465	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q501	2SK2962	FET	1	
Q551	2SC5612	TRANSISTOR	1	
Q552-54	2SC1473	TRANSISTOR	3	2SC14730E
Q555	2SK1608	FET	1	
Q556	2SK1365	FET	1	
Q557	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q701	2SK2538000LB	FET	1	
Q805	2SK2123000LB	FET	1	
Q849	2SA19610Q0HW	TRANSISTOR	1	
Q852	2SC3311A	TRANSISTOR	1	2SC3311AW
Q854	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1003	2SC3311A	TRANSISTOR	1	2SC3311AW
Q1107	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1115	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1121-23	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q1125	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1303-05	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q1306	2SB709A	TRANSISTOR	1	2SB0709A
Q1307	XN5601	TRANSISTOR	1	XN05601
Q1308,09	2SB709A	TRANSISTOR	2	2SB0709A
Q1311-16	2SB709A	TRANSISTOR	6	2SB0709A
Q1317	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1318,19	2SB709A	TRANSISTOR	2	2SB0709A
Q1321,22	2SB709A	TRANSISTOR	2	2SB0709A
Q1326	2SB709A	TRANSISTOR	1	2SB0709A
Q1327	2SK198R	FET	1	2SK01980R
Q1328	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1329	2SK198R	FET	1	2SK01980R
Q1330	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1332	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1333	2SB709A	TRANSISTOR	1	2SB0709A
Q1334	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1335,36	2SB709A	TRANSISTOR	2	2SB0709A
Q1710	2SD601A-R	TRANSISTOR	1	2SD0601AR

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q1711	2SB709A	TRANSISTOR	1	2SB0709A
Q1712	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1713	2SB709A	TRANSISTOR	1	2SB0709A
Q1714	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1715	2SB709A	TRANSISTOR	1	2SB0709A
Q1716	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1720	2SB709A	TRANSISTOR	1	2SB0709A
Q1721	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1725	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1728-30	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q1735-37	2SB709A	TRANSISTOR	3	2SB0709A
Q1738	2SC3757	TRANSISTOR	1	2SC37570R
Q1739	2SB709A	TRANSISTOR	1	2SB0709A
Q1752	2SB709A	TRANSISTOR	1	2SB0709A
Q2002-05	2SB709A	TRANSISTOR	4	2SB0709A
Q2040,41	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q2043	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q2215,16	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q2301-06	2SD601A-R	TRANSISTOR	6	2SD0601AR
Q2307,08	2SB709A	TRANSISTOR	2	2SB0709A
Q2309-12	2SD601A-R	TRANSISTOR	4	2SD0601AR
Q2361	2SC3311A	TRANSISTOR	1	2SC3311AW
Q2534	2SC3757	TRANSISTOR	1	2SC37570R
Q2901-03	2SC3311A	TRANSISTOR	3	2SC3311AW
Q2904,05	2SC1318A	TRANSISTOR	2	2SC1318AW
Q2911	2SC1318A	TRANSISTOR	1	2SC1318AW
Q2912	2SA720-R	TRANSISTOR	1	
Q2913,14	2SC1318A	TRANSISTOR	2	2SC1318AW
Q2915	2SA720-R	TRANSISTOR	1	
Q2916	2SA720A	TRANSISTOR	1	
Q2917	2SA1535A	TRANSISTOR	1	
Q2918	2SC3944A	TRANSISTOR	1	
Q2919	2SC1318A	TRANSISTOR	1	2SC1318AW
Q2941	2SC1318A	TRANSISTOR	1	2SC1318AW
Q2942	2SA720-R	TRANSISTOR	1	
Q2943,44	2SC1318A	TRANSISTOR	2	2SC1318AW
Q2945	2SA720-R	TRANSISTOR	1	
Q2946	2SA720A	TRANSISTOR	1	
Q2947	2SA1535A	TRANSISTOR	1	
Q2948	2SC3944A	TRANSISTOR	1	
Q2949	2SC1318A	TRANSISTOR	1	2SC1318AW
Q2971	2SC1318A	TRANSISTOR	1	2SC1318AW
Q2972	2SA720-R	TRANSISTOR	1	
Q2973,74	2SC1318A	TRANSISTOR	2	2SC1318AW
Q2975	2SA720-R	TRANSISTOR	1	
Q2976	2SA720A	TRANSISTOR	1	
Q2977	2SA1535A	TRANSISTOR	1	
Q2978	2SC3944A	TRANSISTOR	1	
Q2979	2SC1318A	TRANSISTOR	1	2SC1318AW
Q3006	2SB709A	TRANSISTOR	1	2SB0709A
Q3007	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q3011	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q3071,72	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q3130	2SD601A-R	TRANSISTOR	1	2SD0601AR

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q3131	2SB709A	TRANSISTOR	1	2SB0709A
Q3132	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q3351	2SB1030A	TRANSISTOR	1	
Q3361	2SB1030A	TRANSISTOR	1	
Q3371	2SB1030A	TRANSISTOR	1	
Q3401	2SB709A	TRANSISTOR	1	2SB0709A
Q3402	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q7001,02	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q7101	XN1501	TRANSISTOR	1	XN01501
Q7102	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q7103	2SB709A	TRANSISTOR	1	2SB0709A
Q7701-03	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q7704-06	2SB709A	TRANSISTOR	3	2SB0709A
Q7707-09	2SC3526H	TRANSISTOR	3	
Q7710,11	2SB709A	TRANSISTOR	2	2SB0709A
Q7712	2SC3757	TRANSISTOR	1	2SC37570R
Q7713,14	2SB709A	TRANSISTOR	2	2SB0709A
Q7715	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q7716	2SB709A	TRANSISTOR	1	2SB0709A
Q7717-19	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q7720-25	2SB709A	TRANSISTOR	6	2SB0709A
Q9301	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q9302	2SB709A	TRANSISTOR	1	2SB0709A
Q9601	2SB709A	TRANSISTOR	1	2SB0709A
Q9602	2SC4635	TRANSISTOR	1	
Q9603	2SD601A-R	TRANSISTOR	1	2SD0601AR
R001	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R002,03	ERJ6GEYJ683	M 68KOHM,J,1/10W	2	
R005	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R008	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R052,53	ERJ6GEYJ683	M 68KOHM,J,1/10W	2	
R055	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R056	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R057	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R058	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R059	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R064	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R355	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R357	ERG7ZJ272	M 2.7KOHM, J, 7W	1	
R358	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R359	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R362	ERC12GK331	S 330 OHM, 1/2W	1	
R365	ERDS2TJ821	C 820 OHM, J,1/4W	1	
R366,67	ERG12SJ101P	M 100 OHM, J,1/2W	2	
R368,69	ERDS1FJ330	C 33 OHM, J,1/2W	2	
R372	ERC12GK331	S 330 OHM, 1/2W	1	
R373	ERG7ZJ272	M 2.7KOHM, J, 7W	1	
R375	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R377	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R378	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R379	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R382	ERC12GK331	S 330 OHM, 1/2W	1	
R383	ERG7ZJ272	M 2.7KOHM, J, 7W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R385	ERDS2TJ821	C 820 OHM, J,1/4W	1	
R386,87	ERG12SJ101P	M 100 OHM, J,1/2W	2	
R388,89	ERDS1FJ330	C 33 OHM, J,1/2W	2	
R390	ERDS2TJ821	C 820 OHM, J,1/4W	1	
R391,92	ERG12SJ101P	M 100 OHM, J,1/2W	2	
R393,94	ERDS1FJ330	C 33 OHM, J,1/2W	2	
R395	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R398	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R399	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R451,52	ERX12SJ3R3	M 3.3 OHM, J,1/2W	2	
R453	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R454	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R455	ERG3FJS331D	M 330 OHM, J, 3W	1	
R456	ERJ6ENF9531	M9.53KOHM, 1/10W	1	
R457	ERJ6ENF7151	M7.15KOHM, 1/10W	1	
R458	ERJ6ENF3481	M3.48KOHM, 1/10W	1	
R460	ERDS1FJ1R0	C 1 OHM, J,1/2W	1	
R461	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R462	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R463	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R464	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R465	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R466	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R467	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R468	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R469	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R470,71	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R472-74	ERDS2TJ331	C 330 OHM, J,1/4W	3	
R475	ERJ6ENF3011	M3.01KOHM, 1/10W	1	
R476	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R477	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R478,79	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R496	ERJ6ENF7152	M71.5KOHM, 1/10W	1	
R497	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R498	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R499	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R501	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R502	ERDS2TJ680	C 68 OHM, J,1/4W	1	
R503	ERG3FJS680D	M 68 OHM, J, 3W	1	
R504	ERG1SJ102P	M 1KOHM, J, 1W	1	
R506	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R507	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R510	ERDS1FJ1R5	C 1.5 OHM, J,1/2W	1	
R511	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R512	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R513	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R514	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R515,16	ERDS2TJ222	C 2.2KOHM, J,1/4W	2	
R517	ER0S2CKF4991	M4.99KOHM, F,1/4W	1	
R518	ERDS2TJ222	C 2.2KOHM, J,1/4W	1	
R519	ER050CKF4532	M4.53KOHM, F,1/2W	1	ERO50CKF4532
R520	ER0S2CKF3832	M38.3KOHM, F,1/4W	1	EROS2CKF3832
R521	ER0S2CKF6041	M6.04KOHM, F,1/4W	1	EROS2CKF6041
R522	ER0S2CKF1212	M12.1KOHM, F,1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R524	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R525	ERQ12HKR33	F0.33 OHM, K,1/2W	1	
R526	ERQ12HJ330	F 33 OHM, J,1/2W	1	
R527	ERJ6ENF2552	M25.5KOHM, 1/10W	1	
R528	ERJ6ENF8061	M8.06KOHM, 1/10W	1	
R529	ER0S2CKF4991	M4.99KOHM, F,1/4W	1	
R530	ERDS2TJ471	C 470 OHM, J,1/4W	1	
R531	ERDS2TJ275	C 2.7MOHM, J,1/4W	1	
R532	ERDS2TJ224	C 220KOHM, J,1/4W	1	
R533	EVMAASA00B34	CONTROL 30KOHMB	1	
R534	ERDS2TJ333	C 33KOHM, J,1/4W	1	
R540	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R541,42	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R543,44	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R545	ERG1SJ100P	M 10 OHM, J, 1W	1	
R647	ERJ6GEYJ680	M 68 OHM,J,1/10W	1	
R652,53	ERJ6GEYJ331	M 330 OHM,J,1/10W	2	
R654	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R655-57	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	3	
R658	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R701	ERDS1FJ680	C 68 OHM, J,1/2W	1	
R703	ERF5AK4R7	W 4.7 OHM, K, 5W	1	
R779	ERJ6ENF1372	M13.7KOHM, 1/10W	1	
R780	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	1	
R781	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R782	ERDS2TJ391	C 390 OHM, J,1/4W	1	
R783	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R801	ERF10ZK4R7	W 4.7 OHM, Z, 10W	1	
R803,04	ERG2FJS393D	M 39K OHM, J, 2W	2	
R806	ERX12SJR12P	M 12 OHM, J,1/2W	1	
R810	ERX12SJR12P	M 12 OHM, J,1/2W	1	
R815	ERD75TAJ825	C 8.2MOHM, J,3/4W	1	⚠
R819	ERDS2TJ681	C 680 OHM, J,1/4W	1	
R820	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R821	ERDS2TJ680	C 68 OHM, J,1/4W	1	
R822	ERDS2TJ820	C 82 OHM, J,1/4W	1	
R832	ERDS1FJ391	C 390 OHM, J,1/2W	1	
R836,37	ERDS2TJ152	C 1.5KOHM, J,1/4W	2	
R845	ERX1SJR27	M 0.27 OHM, J, 1W	1	
R854	ERDS2TJ221	C 220 OHM, J,1/4W	1	
R861	ERG3FJS470D	M 47 OHM, J, 3W	1	TX-47P500X
R867	ERG3FJS153D	M 15KOHM, J, 3W	1	
R870	ERC12ZGK335	S 3.3MOHM, K,1/2W	1	⚠
R871	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R872	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R873	ERDS1FJ102	C 1KOHM, J,1/2W	1	
R877	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R880	ERDS2TJ183	C 18KOHM, J,1/4W	1	
R881	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R882	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R883	ERG1SJ104P	M 100KOHM, J, 1W	1	
R884	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R885,86	ERX1SJ1R0	M 1.0 OHM, J, 1W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R890	ERDS1FJ102	C 1KOHM, J,1/2W	1	
R891	ERDS1FJ122	C 1.2KOHM, J,1/2W	1	
R1043	ERDS2TJ682	C 6.8KOHM, J,1/4W	1	
R1044	ERDS2TJ123	C 12KOHM, J,1/4W	1	
R1045	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R1046	ERDS2TJ683	C 68KOHM, J,1/4W	1	
R1050	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R1051	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1081	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R1082	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R1083,84	ERDS2TJ101	C 100 OHM, J,1/4W	2	
R1085	ERDS2TJ221	C 220 OHM, J,1/4W	1	
R1101,02	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R1103	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R1104	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R1105	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R1106	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1107	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R1108,09	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	2	
R1110	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R1111,12	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R1113	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1114	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1115	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R1116	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R1117	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1118-21	TAJAAH0101JV	M 100 OHM,J,1/16W	4	D0GB101JA006
R1122-25	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R1126	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1127	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1128	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1131	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1132	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R1134	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1143	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1145	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R1146	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1147	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1153	ERJ3GEYJ563	M 56KOHM,J,1/16W	1	
R1154	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1155	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1156	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1157,58	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R1159	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1160	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1161	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1162	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R1164	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R1166	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R1168	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1169	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1170	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1172	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1177	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1178	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1179	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R1180	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R1181	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1188-93	TAJAAH0101JV	M 100 OHM,J,1/16W	6	D0GB101JA006
R1194	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1195	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1196	EXB38V680J	RESISTOR ARRAY	1	
R1202	EXB38V680J	RESISTOR ARRAY	1	
R1205	EXB38V680J	RESISTOR ARRAY	1	
R1209	EXB38V680J	RESISTOR ARRAY	1	
R1214	EXB38V680J	RESISTOR ARRAY	1	
R1217	EXB38V680J	RESISTOR ARRAY	1	
R1221	EXB38V680J	RESISTOR ARRAY	1	
R1225	EXB38V680J	RESISTOR ARRAY	1	
R1232,33	EXB38V680J	RESISTOR ARRAY	2	
R1236	EXB38V680J	RESISTOR ARRAY	1	
R1239,40	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R1241	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R1242	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R1243	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R1249,50	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1251	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1253	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R1255	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1256	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1257	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1258	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1264	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1293,94	ERJ6ENF3901	M 3.9KOHM, 1/10W	2	
R1301,02	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1303	ERJ6ENF56R0	M 56 OHM, 1/10W	1	
R1304	ERJ3EKF7151	M7.15KOHM, 1/16W	1	
R1305	ERJ6ENF56R0	M 56 OHM, 1/10W	1	
R1306	ERJ6ENF1200	M 120 OHM, 1/10W	1	
R1307	ERJ3EKF6801	M 6.8KOHM, 1/16W	1	
R1308	ERJ3EKF3901	M 3.9KOHM, 1/16W	1	
R1309,10	ERJ6ENF2001	M 2KOHM, 1/10W	2	
R1311	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1312	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1313,14	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R1315	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1316	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1317	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1318	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1319	ERJ6ENF5600	M 560 OHM, 1/10W	1	
R1320	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1321	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1322	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1323	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1324	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1325	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R1326	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1327	ERJ6ENF1500	M 150 OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1329	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1332	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1333	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1334	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R1335	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1336	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1338	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1339	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R1340	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1341	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1343	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1344	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R1345	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1348	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R1349	ERJ6ENF2701	M 2.7KOHM, 1/10W	1	
R1350	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R1351	ERJ6ENF2701	M 2.7KOHM, 1/10W	1	
R1352	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R1353	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1354	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1355	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1356	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1357	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1358	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1359	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1360	ERJ6ENF5601	M 5.6KOHM, 1/10W	1	
R1361	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1362	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1363-65	TAJAAH0101JV	M 100 OHM,J,1/16W	3	D0GB101JA006
R1366	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1367	ERJ6ENF3000	M 300 OHM, 1/10W	1	
R1368	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1369	ERJ3GEYJ823	M 82KOHM,J,1/16W	1	
R1370	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1371	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1372	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1373	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1374	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1375,76	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1377	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002
R1379	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1380	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1381	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1382	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1383	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1384	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1385	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R1387	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1388	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1389	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1390	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1391	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1392	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1393	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1394	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1395	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R1396	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R1402	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1403	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R1406	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1407	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1408	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1409,10	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	2	
R1415	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1417,18	ERJ6ENF56R0	M 56 OHM, 1/10W	2	
R1419	ERJ6ENF2000	M 200 OHM, 1/10W	1	
R1425,26	ERJ6ENF2001	M 2KOHM, 1/10W	2	
R1429	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1430	ERJ6GEYJ821	M 820 OHM,J,1/10W	1	
R1431	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1433	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1434,35	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R1436	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1437	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R1440	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1443	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1453	ERJ3GEYJ180	M 18 OHM,J,1/16W	1	
R1454	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1455	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R1457	ERJ6GEYJ124	M 120KOHM,J,1/10W	1	
R1458	ERJ6ENF6201	M 6.2KOHM, 1/10W	1	
R1459	ERJ6ENF4751	M4.75KOHM, 1/10W	1	
R1460	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1465	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1466	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1467	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1468	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1471	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1473	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R1474	ERJ6GEYJ274	M 270KOHM,J,1/10W	1	
R1475	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R1476	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1477	ERJ3GEYJ823	M 82KOHM,J,1/16W	1	
R1478	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1480,81	ERJ3GEYJ471	M 470 OHM,J,1/16W	2	
R1482	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R1483	ERJ6GEYJ394	M 390KOHM,J,1/10W	1	
R1485	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1492	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1499	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R1560	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1561	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1562,63	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1564,65	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R1567	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	D0GB101JA002
R1570-73	EXB38V820J	RESISTOR ARRAY	4	
R1710	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1711	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1712	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R1713	ERJ6ENF56R0	M 56 OHM, 1/10W	1	
R1714	ERJ6ENF3740	M 374 OHM, 1/10W	1	
R1715	ERJ6GEYJ391	M 390 OHM,J,1/10W	1	
R1717	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1718	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R1719	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R1720	ERJ6ENF5600	M 560 OHM, 1/10W	1	
R1721	ERJ6ENF3740	M 374 OHM, 1/10W	1	
R1722	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R1724	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1725	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R1726	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R1727	ERJ6ENF5100	M 510 OHM, 1/10W	1	
R1728	ERJ6ENF3740	M 374 OHM, 1/10W	1	
R1729	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R1735	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1736,37	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1750	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R1751	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1752-54	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	
R1755	ERJ3GEYJ563	M 56KOHM,J,1/16W	1	
R1756	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R1757	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1758	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1769-72	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	4	
R1780-82	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R1790	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1792	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1796	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1800	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1803-05	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	3	
R1808,09	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	2	
R1820	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1822	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1824	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1825	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R1826	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1830	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R1832	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1833	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R1835	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1836	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R1837	ERJ6ENF6802	M 68KOHM, 1/10W	1	
R1838	ERJ6ENF7501	M 7.5KOHM, 1/10W	1	
R1840	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1850	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1851	ERJ3GEYJ751	M 750 OHM,J,1/16W	1	
R1870	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1871	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1872	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R1873	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R1874	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1875	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1876	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R1877	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R1878	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1879	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1880	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R1882,83	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1884	ERJ6GEYJ821	M 820 OHM,J,1/10W	1	
R1885	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R1900,01	ERJ3GEYJ393	M 39KOHM,J,1/16W	2	
R1902,03	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R1904,05	ERJ3GEYJ393	M 39KOHM,J,1/16W	2	
R1908	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R1909	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1910	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1911	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R1912,13	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R1914	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1924	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1926	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1929	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1934	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R1935	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R2004	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R2006-08	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	3	
R2015	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2019	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2025,26	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R2030,31	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R2033-36	ERJ6GEY0R00	M 0 OHM,J,1/10W	4	
R2039,40	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R2041	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2042	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2043,44	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2045	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R2051	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2255	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2256,57	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R2258	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2290	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R2291	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2292,93	ERDS2TJ222	C 2.2KOHM, J,1/4W	2	
R2294,95	ERDS2TJ103	C 10KOHM, J,1/4W	2	
R2296	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R2297	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2301	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2303,04	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2305	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2307,08	ERD25FJ2R2	C 2.2 OHM, J,1/4W	2	
R2309,10	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2311	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2312	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2315	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R2316	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R2317	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2318	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2319	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R2321,22	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	2	
R2324-26	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
R2327	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2328	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R2330	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2331	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2333	ER0S2CKF4702	M 47KOHM, F,1/4W	1	EROS2CKF4702
R2335	ERJ6ENF6802	M 68KOHM, 1/10W	1	
R2336	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2337	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R2338,39	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R2340-42	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R2343	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2344	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2345	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2346,47	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R2348	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2349	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2350,51	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2359	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2362,63	ERDS2TJ103	C 10KOHM, J,1/4W	2	
R2367	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2370	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2372	ERJ6ENF6202	M 62KOHM, 1/10W	1	
R2373	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2375	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2379	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2380,81	ERDS2TJ222	C 2.2KOHM, J,1/4W	2	
R2382-84	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R2391	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R2392	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2397	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R2423	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2455	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2483	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2498	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2499	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2546	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2547	ERJ6ENF1100	M 110 OHM, 1/10W	1	
R2563	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2564	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2565	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2566	ERJ6GEYJ821	M 820 OHM,J,1/10W	1	
R2724	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2725	ERJ6ENF1301	M 1.3KOHM, 1/10W	1	
R2726	ERJ6ENF4121	M4.12KOHM, 1/10W	1	
R2727	ERJ6ENF2151	M2.15KOHM, 1/10W	1	
R2728	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R2731	ERJ6ENF2151	M2.15KOHM, 1/10W	1	
R2732	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R2901	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2902	ERDS2TJ683	C 68KOHM, J,1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2903	ERDS2TJ153	C 15KOHM, J,1/4W	1	
R2904,05	ERDS2TJ472	C 4.7KOHM, J,1/4W	2	
R2906	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2907	ERDS2TJ151	C 150 OHM, J,1/4W	1	
R2908	ERDS2TJ272	C 2.7KOHM, J,1/4W	1	
R2909	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2910	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R2911	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2912	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R2913	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R2914	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2915	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R2916	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R2917	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R2918	ERDS2TJ182	C 1.8KOHM, J,1/4W	1	
R2919	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2920	ERDS2TJ181	C 180 OHM, J,1/4W	1	
R2921	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2922,23	ERDS1FJ152	C 1.5KOHM, J,1/2W	2	
R2924,25	ERDS2TJ271	C 270 OHM, J,1/4W	2	
R2926	ERQ14AJ100P	F 10 OHM, J,1/4W	1	
R2927,28	ERQ14AJ120P	F 12 OHM, J,1/4W	2	
R2929	ERDS2FJ122	C 1.2KOHM, J,1/4W	1	
R2930	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2931,32	ERDS2TJ683	C 68KOHM, J,1/4W	2	
R2933	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2934	ERDS2TJ122	C 1.2KOHM, J,1/4W	1	
R2935	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R2936	ERDS2FJ100	C 10 OHM, J,1/4W	1	
R2937	ERDS2TJ100	C 10 OHM, J,1/4W	1	
R2938	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R2939	ERDS1FJ470	C 47 OHM, J,1/2W	1	
R2940	ERG2FJS151D	M 150 OHM, J, 2W	1	
R2950	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2951	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R2952	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2953,54	ERDS1FJ152	C 1.5KOHM, J,1/2W	2	
R2955,56	ERDS2TJ271	C 270 OHM, J,1/4W	2	
R2957	ERQ14AJ100P	F 10 OHM, J,1/4W	1	
R2958,59	ERQ14AJ120P	F 12 OHM, J,1/4W	2	
R2960	ERDS2FJ122	C 1.2KOHM, J,1/4W	1	
R2961	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2962,63	ERDS2TJ683	C 68KOHM, J,1/4W	2	
R2964	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2965	ERDS2TJ122	C 1.2KOHM, J,1/4W	1	
R2966	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R2967	ERDS2FJ100	C 10 OHM, J,1/4W	1	
R2968	ERDS2TJ100	C 10 OHM, J,1/4W	1	
R2969	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R2970	ERDS1FJ470	C 47 OHM, J,1/2W	1	
R2971	ERG2FJS151D	M 150 OHM, J, 2W	1	
R2975	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2976	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R2977	ERDS2TJ271	C 270 OHM, J,1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2978,79	ERDS1FJ152	C 1.5KOHM, J,1/2W	2	
R2980,81	ERDS2TJ271	C 270 OHM, J,1/4W	2	
R2982	ERQ14AJ100P	F 10 OHM, J,1/4W	1	
R2983,84	ERQ14AJ120P	F 12 OHM, J,1/4W	2	
R2985	ERDS2FJ122	C 1.2KOHM, J,1/4W	1	
R2986	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2987,88	ERDS2TJ683	C 68KOHM, J,1/4W	2	
R2989	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2990	ERDS2TJ122	C 1.2KOHM, J,1/4W	1	
R2991	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R2992	ERDS2FJ100	C 10 OHM, J,1/4W	1	
R2993	ERDS2TJ100	C 10 OHM, J,1/4W	1	
R2994	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R2995	ERDS1FJ470	C 47 OHM, J,1/2W	1	
R2996	ERG2FJS151D	M 150 OHM, J, 2W	1	
R3012,13	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R3014	ERJ8ENF75R0	M 75 OHM, 1/8W	1	
R3015	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R3016	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3017-20	ERJ6GEYJ221	M 220 OHM,J,1/10W	4	
R3021	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R3022,23	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R3025-27	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	
R3028	ERJ8ENF75R0	M 75 OHM, 1/8W	1	
R3029,30	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R3031	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R3033,34	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R3037	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R3038	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R3044	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3049	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R3050	ERJ6ENF5600	M 560 OHM, 1/10W	1	
R3051	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R3052,53	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R3054	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3055-58	ERJ6ENF75R0	M 75 OHM, 1/10W	4	
R3059	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R3062	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3065	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3067	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3068	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3071	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R3073	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3074	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3076	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3077-79	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	3	
R3084-90	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	7	
R3091-96	ERJ6ENF75R0	M 75 OHM, 1/10W	6	
R3116	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R3122	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R3123	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R3124	ERJ6GEYJ681	M 680 OHM,J,1/10W	1	
R3125	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3126	ERJ6GEYJ121	M 120 OHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3127	ERJ6GEYJ390	M 39 OHM,J,1/10W	1	
R3128	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3129,30	ERJ6GEYJ561	M 560 OHM,J,1/10W	2	
R3326	ERJ6ENF1272	M12.7KOHM, 1/10W	1	
R3355	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3356	ERDS2TJ822	C 8.2KOHM, J,1/4W	1	
R3357	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3365	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3366	ERDS2TJ822	C 8.2KOHM, J,1/4W	1	
R3367	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3375	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3376	ERDS2TJ822	C 8.2KOHM, J,1/4W	1	
R3377	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3412	ERJ8ENF75R0	M 75 OHM, 1/8W	1	
R3421	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3422	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3455	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R3456	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3457	ERJ6GEYJ750	M 75 OHM,J,1/10W	1	
R3458	ERJ8GEYJ331	M 330 OHM, J,1/8W	1	
R6704	ERF2AK5R6	W 5.6 OHM, K, 2W	1	
R7008	ERJ6GEYJ273	M 27KOHM,J,1/10W	1	
R7009	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R7010	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7011	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7012	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7013	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7014	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7015	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7016	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7017	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7018	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7019	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7020	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7021	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7022	ERJ6GEYJ273	M 27KOHM,J,1/10W	1	
R7023	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R7024-29	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	6	
R7030	ERG2FJS121D	M 120 OHM, J, 2W	1	
R7031-33	ERG2FJS820D	M 82 OHM, J, 2W	3	
R7034	ERG2FJS121D	M 120 OHM, J, 2W	1	
R7035	ERG2FJS820D	M 82 OHM, J, 2W	1	
R7036-39	ER0S2CKF10R0	M 10 OHM, F,1/4W	4	
R7040-47	ER0S2CKF20R0	M 20 OHM, F,1/4W	8	EROS2CKF20R0
R7048-51	ER0S2CKF10R0	M 10 OHM, F,1/4W	4	
R7052-59	ER0S2CKF20R0	M 20 OHM, F,1/4W	8	EROS2CKF20R0
R7060-63	ER0S2CKF10R0	M 10 OHM, F,1/4W	4	
R7064-71	ER0S2CKF20R0	M 20 OHM, F,1/4W	8	EROS2CKF20R0
R7080	ERX1SJR39	M0.39 OHM, J, 1W	1	
R7085	ERX1SJR39	M0.39 OHM, J, 1W	1	
R7090-95	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	6	
R7101-03	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	3	
R7104,05	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R7106-08	ERJ6ENF4702	M 47KOHM, 1/10W	3	

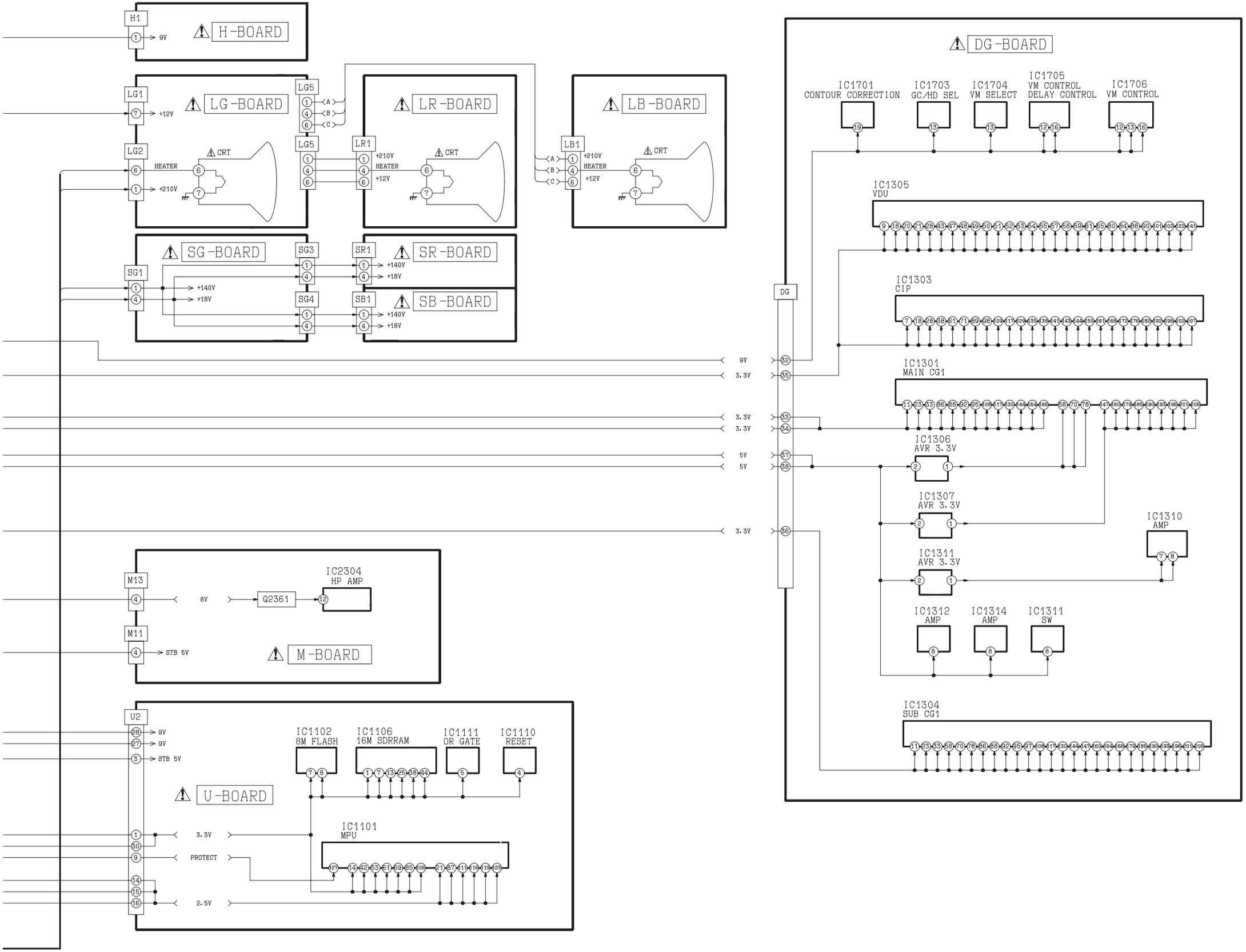
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7109	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R7111	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7114-17	ERJ6ENF4702	M 47KOHM, 1/10W	4	
R7118-21	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	4	
R7122	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7123	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R7124,25	ERJ6GEYJ330	M 33 OHM,J,1/10W	2	
R7126	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7127	ERJ6ENF6200	M 620 OHM, 1/10W	1	
R7128	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R7129	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7130	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7131	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R7134,35	ERJ6GEYJ151	M 150 OHM,J,1/10W	2	
R7141	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7142	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7143	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7144	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7145	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7146	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7147	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7148	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7149	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7150	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7151	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7152	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7153	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7154	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7155	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R7157,58	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R7163,64	ERJ6GEYJ330	M 33 OHM,J,1/10W	2	
R7165-69	ERJ6GEYJ103	M 10KOHM,J,1/10W	5	
R7170-72	ERJ6GEYJ330	M 33 OHM,J,1/10W	3	
R7185	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7186	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R7187	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7188	ERJ6GEYJ181	M 180 OHM,J,1/10W	1	
R7189	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R7190	ERG1SJ820	M 82 OHM, J, 1W	1	
R7191	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R7194,95	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R7196-98	ERJ6GEYJ271	M 270 OHM,J,1/10W	3	
R7701-03	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	
R7705	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7707	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7709	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7716	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7717-19	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
R7724-26	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	3	
R7727-29	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	
R7733	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R7734	ER0S2CKF2490	M24.9 OHM, F,1/4W	1	EROS2CKF2490
R7735	ER0S2CKF1500	M 150 OHM, F,1/4W	1	
R7736	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7737	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R7738	ER0S2CKF2490	M24.9 OHM, F,1/4W	1	EROS2CKF2490
R7739	ER0S2CKF1500	M 150 OHM, F,1/4W	1	
R7740	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R7741	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R7742	ER0S2CKF2490	M24.9 OHM, F,1/4W	1	EROS2CKF2490
R7743	ER0S2CKF1500	M 150 OHM, F,1/4W	1	
R7744	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R7745	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7746-48	ERJ6ENF1000	M 100 OHM, 1/10W	3	
R7750-52	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R7753	ERJ6ENF3901	M 3.9KOHM, 1/10W	1	
R7754	ERJ6ENF4700	M 470 OHM, 1/10W	1	
R7755	ERJ6ENF2000	M 200 OHM, 1/10W	1	
R7756	ERJ6ENF1000	M 100 OHM, 1/10W	1	
R7757	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R7758-61	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R7762	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R7763	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7765	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R7766,67	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R7771	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7772	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R7773	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7776-78	ERJ6GEYJ471	M 470 OHM,J,1/10W	3	
R7779	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R7780	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R7781	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R7782	ERJ6ENF39R0	M 39 OHM, 1/10W	1	
R7788	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7789	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7790	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R7791	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7792	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R7793	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7794	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R7795-97	ER0S2CKF1500	M 150 OHM, F,1/4W	3	
R7801	ERJ6ENF2700	M 270 OHM, 1/10W	1	
R7802	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R7803	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R7804	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R7805	ERJ6ENF2700	M 270 OHM, 1/10W	1	
R7806	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R7807	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R7808	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R7809	ERJ6ENF2700	M 270 OHM, 1/10W	1	
R7810	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R7811	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R7812	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R9301	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R9303	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R9304	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R9306	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R9318	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9319	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R9320	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R9602	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R9603	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R9604-06	ERJ6GEYJ102	M 1KOHM,J,1/10W	3	
R9607	ERG2FJS222D	M 2.2KOHM, J, 2W	1	
R9608	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R9609	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R9610	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
R9611-15	ERG2FJS333D	M 33KOHM, J, 2W	5	
R9616	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R9617	ERJ6ENF2801	M 2.8KOHM, 1/10W	1	
R9618	ERJ6ENF2741	M2.74KOHM, 1/10W	1	
R9619	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R9620	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R9621	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R9622	ERC12GK103	S 10KOHM, K,1/2W	1	
R9623	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R9624	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R9625	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R9626	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R9627	ERJ6ENF2742	M27.4KOHM, 1/16W	1	
RL801	K6B1ADA00010	RELAY	1	⚠
RL802	TSEH8011	RELAY	1	K6B1AGA00043 ⚠
RL3401	TSEH8017	SWITCH	1	K6B2CFA00015
RM1001	PNA4601M04TV	REMOTE CONTROL RECEIVER	1	
RTL	TZTNP020GFV	CIRCUIT BOARD A	1	⚠
RTL	TZTNP010GHV	CIRCUIT BOARD D	1	TX-47P500HZ ⚠
RTL	TZTNP010GFV	CIRCUIT BOARD D	1	TX-47P500HQ/HM ⚠
RTL	TZTNP010GJV	CIRCUIT BOARD D	1	TX-47P500X ⚠
RTL	TNPA1970AP	CIRCUIT BOARD H	1	⚠
RTL	TNPA2316AJ	CIRCUIT BOARD P	1	TX-47P500HM ⚠
RTL	TNPA2316AK	CIRCUIT BOARD P	1	TX-47P500HQ/HZ ⚠
RTL	TNPA2316AL	CIRCUIT BOARD P	1	TX-47P500X ⚠
RTL	TXN/U10GFV	CIRCUIT BOARD U	1	⚠
RTL	TXNDG10GFV	CIRCUIT BOARD DG	1	⚠
RTL	TNPA2332AD	CIRCUIT BOARD LR	1	⚠
RTL	TNPA2333AD	CIRCUIT BOARD LG	1	⚠
RTL	TNPA2334AD	CIRCUIT BOARD LB	1	⚠
RTL	TNPA2315	CIRCUIT BORD M	1	⚠
RTL	TNPA2469	CIRCUIT BOARD SG	1	⚠
RTL	TNPA2470	CIRCUIT BOARD SR	1	⚠
RTL	TNPA2471	CIRCUIT BOARD SB	1	⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
S840	ESB92S11B	SWITCH	1	⚠
S1003-07	EVQ23405R	SWITCH	5	
SB1	TJS3A9670	6P CONNECTOR	1	K1KA06A00179
SG1	TJS3A9650	4P CONNECTOR	1	K1KA04A00194
SG2	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
SG3,G4	TJS3A9670	6P CONNECTOR	2	K1KA06A00179
SR1	TJS3A9670	6P CONNECTOR	1	K1KA06A00179
T501	ETH19K135AY	H DRIVE TRANS	1	
T551	KFT7AA334F1	FLYBACK TRANS	1	TX-47P500HM/HQ/X ⚠
T551	KFT7AA334F2	FLYBACK TRANS	1	TX-47P500HZ ⚠
T801	ETS42AE2X6AC	POWER TRANS	1	⚠
T881	TLPA078	REMOCON TRANS	1	ETS19AB186AG TX-47P500X ⚠
T881	ETS19AB186AG	SWITCHING TRANS	1	TX-47P500HM/HQ/HZ ⚠
TNR001	ENGF9103G	TUNER	1	⚠
TNR002	ENG39607G	TUNER	1	⚠
U1,U2	K1KB30A00092	30P CONNECTOR	2	
X1301,02	TSSA171	CRYSTAL	2	
X2101	TSSA128	CRYSTAL	1	H0D184500008
X3501	H0J600400006	CRYSTAL	1	

18. Schematic Diagram for printing with A4


H1
9V
H-BOARD
LG1
+12V
LG2
HEATER
+210V
CRT
LG-BOARD
LG5
A
B
C
LR1
+210V
HEATER
+12V
LR-BOARD
LB1
LB-BOARD
SG1
+140V
+18V
SG-BOARD
SG3
SG4
SR1
SR-BOARD
SB1
SB-BOARD
9V
3.3V
5V
M13
8V
Q2361
IC2304
HP AMP
M11
STB 5V
M-BOARD
U2
STB 5V
U-BOARD
IC1102
8M FLASH
IC1106
16M SDRRAM
IC1111
OR GATE
IC1110
RESET
IC1101
MPU
PROTECT
2.5V
DG
DG-BOARD
IC1701
CONTOUR CORRECTION
IC1703
GC/HD SEL
IC1704
VM SELECT
IC1705
VM CONTROL
DELAY CONTROL
IC1706
VM CONTROL
IC1305
VDU
IC1303
CIP
IC1301
MAIN CG1
IC1306
AVR 3.3V
IC1307
AVR 3.3V
IC1310
AMP
IC1311
AVR 3.3V
IC1312
AMP
IC1314
AMP
IC1311
SW
IC1304
SUB CG1

A-BOARD

M-BOARD

H-BOARD

IC3001
AV SWICH

FRONT
AV3 IN
V
Y
C

M12
A25
A13
A9

AV3 V/Y IN
AV3 C IN
AV3 SW

V/Y
C
S2-1
S-3

AV3 IN

TNR001
ANT
VIDEO
MAIN
Q3006
AMP
MAIN TV IN

TNR002
VIDEO
SUB
SUB TV IN

MAIN OUT
Main Yout 66
Main Cout 68
Q3072
Q3007
MAIN CVBS/Y
MAIN C/B-Y
MAIN R-Y
MAIN_R-Y

SUB OUT
Sub V/Y Out 44
Sub Cout 47
Q3132
Q3011
IC3003
Q3131
Q3130
IC1253
Sub VIDEO GAIN
SUB CVBS/Y
SUB C/B-Y
SUB R-Y
SUB_R-Y

MONITOR OUT
Q3401
H2
A11
MONITOR OUT
MONITOR OUT

AV1 IN
AV1 V IN
AV1 Y IN
AV1 C IN
AV1 SW
S-1

AV2 IN
AV2 Y IN
AV2 PB IN
AV2 SW IN
S-2

H1
A10
AV2 V IN
AV4 V IN
AV4 Y IN
AV4 PB IN
AV4 SW IN
S-4

AV4 IN

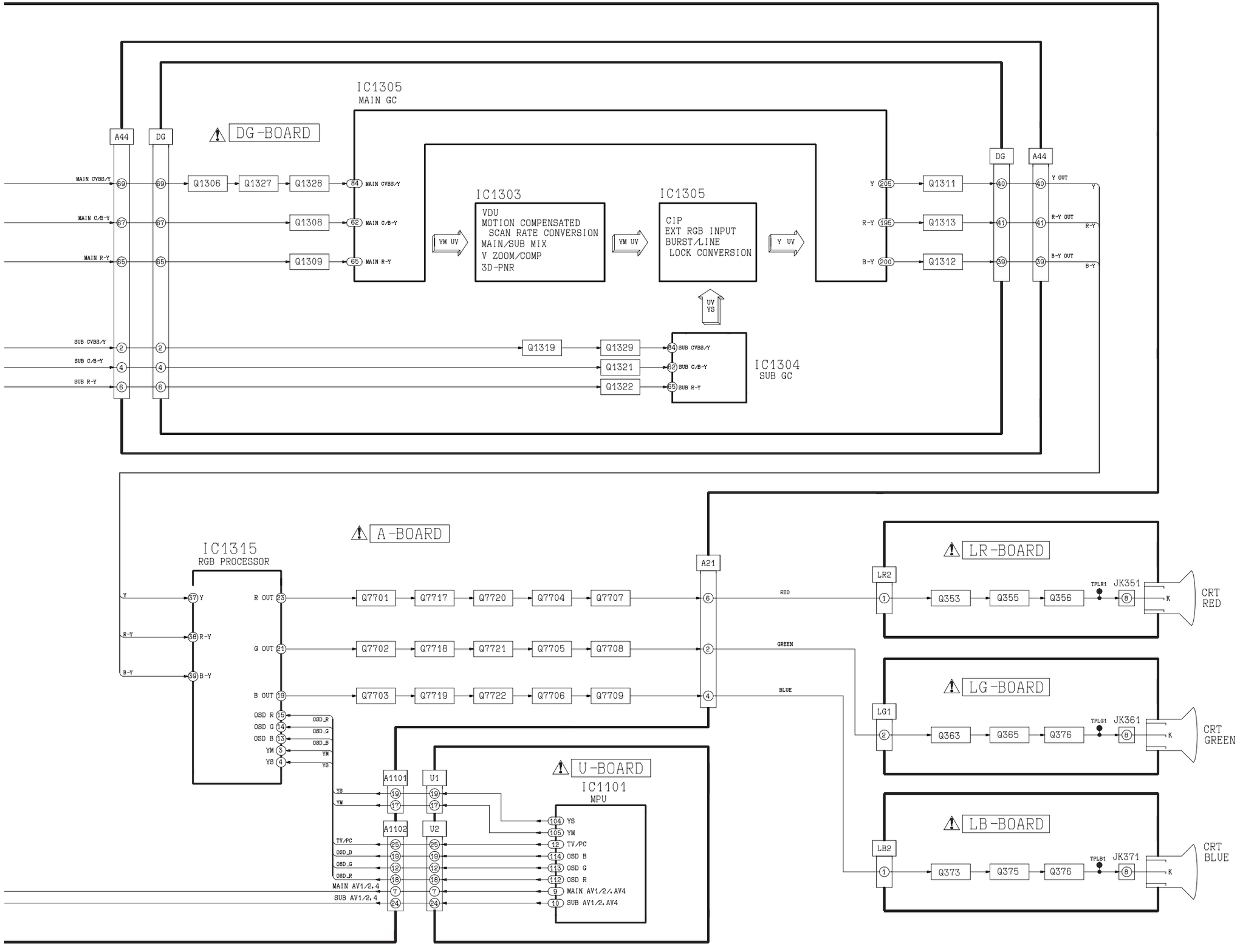
AV2 PR IN
AV4 PR IN

IC3004
MAIN
MAIN AV1/2/4
MAIN_R-Y

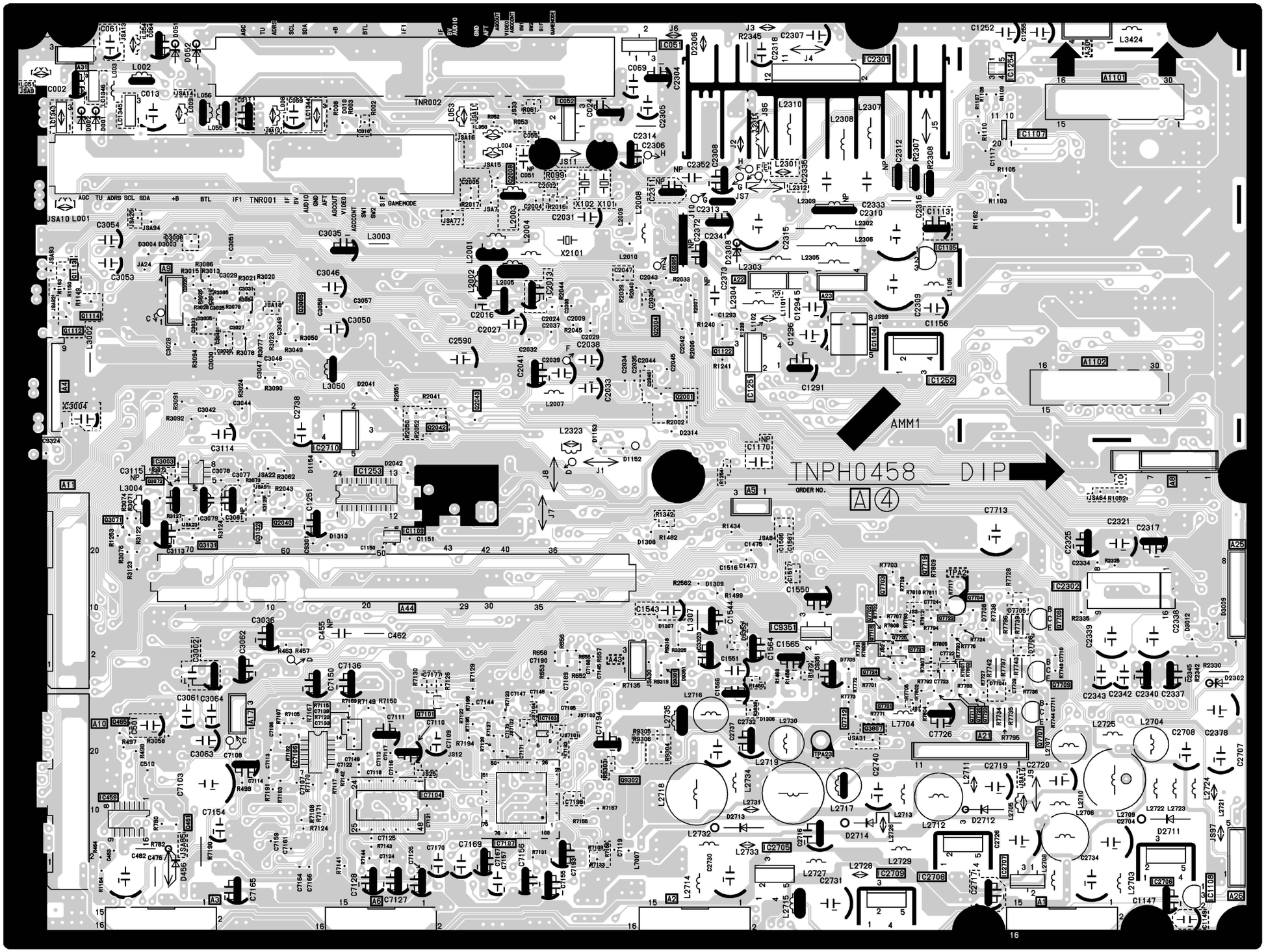
IC3005
SUB
SUB R-Y
SUB AV1/2/4
SUB_R-Y

A
B
C
D
E

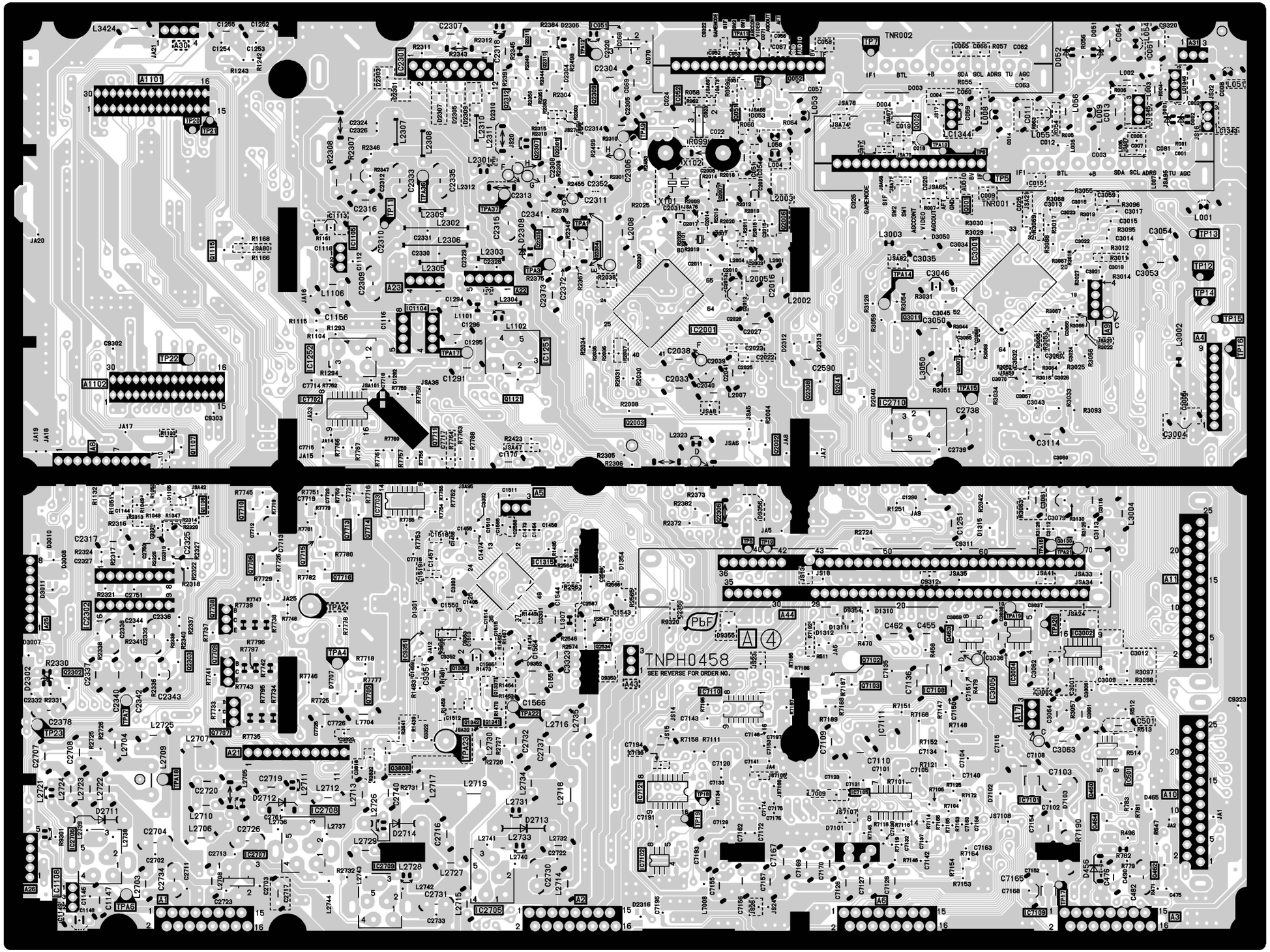
1 2 3 4 5 6 7


IC1305
MAIN GC
DG-BOARD
A44
DG
MAIN CVBS/Y
MAIN C/B-Y
MAIN R-Y
Q1306
Q1327
Q1328
Q1308
Q1309
MAIN CVBS/Y
MAIN C/B-Y
MAIN R-Y
IC1303
VDU
MOTION COMPENSATED
SCAN RATE CONVERSION
MAIN/SUB MIX
V ZOOM/COMP
3D-PNR
YM UV
IC1305
CIP
EXT RGB INPUT
BURST/LINE
LOCK CONVERSION
YM UV
Y UV
UV
YS
Y
R-Y
B-Y
Q1311
Q1313
Q1312
DG
A44
Y OUT
R-Y OUT
B-Y OUT
SUB CVBS/Y
SUB C/B-Y
SUB R-Y
Q1319
Q1329
Q1321
Q1322
SUB CVBS/Y
SUB C/B-Y
SUB R-Y
IC1304
SUB GC
A-BOARD
IC1315
RGB PROCESSOR
R OUT
G OUT
B OUT
OSD R
OSD G
OSD B
YM
YS
Q7701
Q7717
Q7720
Q7704
Q7707
Q7702
Q7718
Q7721
Q7705
Q7708
Q7703
Q7719
Q7722
Q7706
Q7709
A21
RED
GREEN
BLUE
LR-BOARD
LR2
Q353
Q355
Q356
TPLR1
JK351
CRT
RED
LG-BOARD
LG1
Q363
Q365
Q376
TPLG1
JK361
CRT
GREEN
LB-BOARD
LB2
Q373
Q375
Q376
TPLB1
JK371
CRT
BLUE
U-BOARD
IC1101
MPU
A1101
A1102
U1
U2
MAIN AV1/2.4
SUB AV1/2.4
MAIN AV1/2/.AV4
SUB AV1/2.AV4
7
8
9
10
11
12
13

A-BOARD (COMPONENT SIDE)
TZTNP020GFV

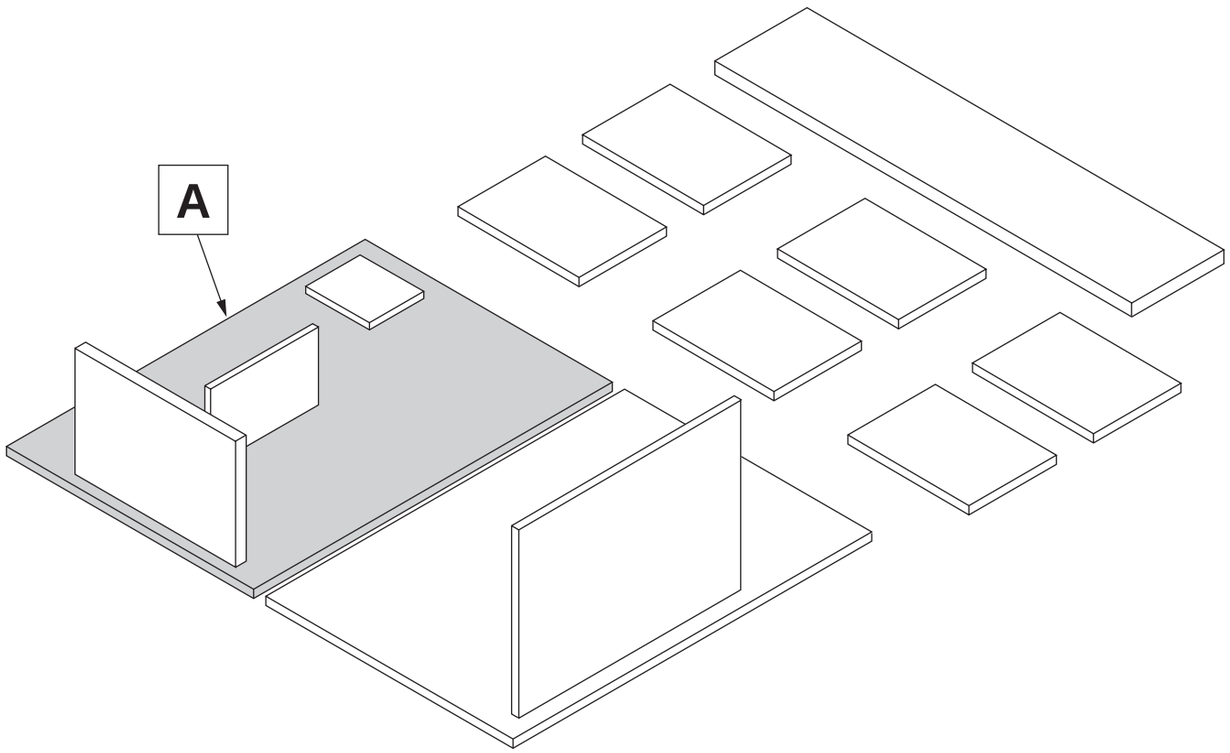


A-BOARD (FOIL SIDE)
TZTNP020GFV



A B C D E F G H

1 2 3 4 5 6



Parts Location

A-BOARD (FOIL SIDE)

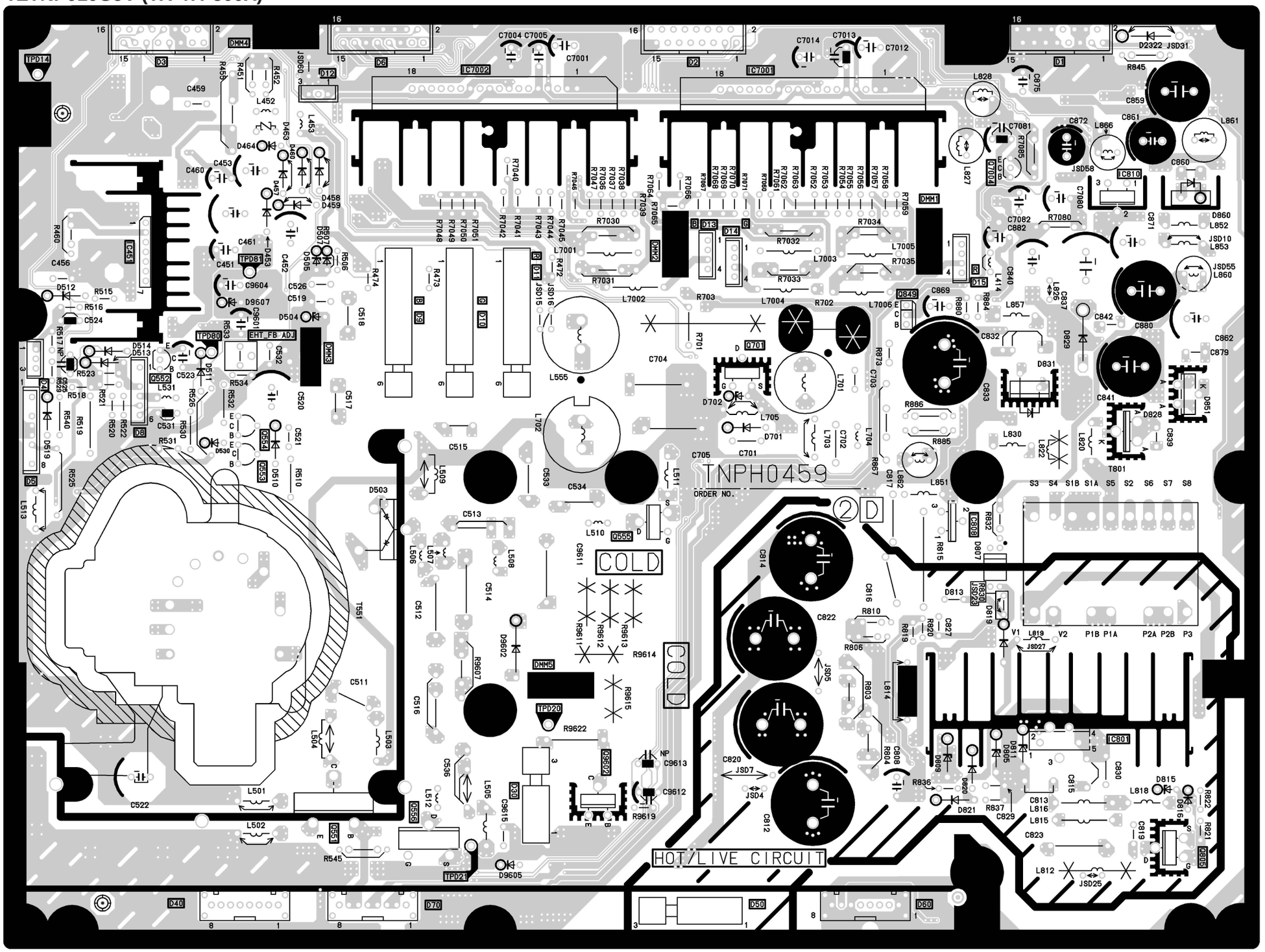
IC		IC7121	D-2	Q2305	D-4	TP7	F-6	TPA15	F-4
IC051	D-6	IC7702	B-4	Q2306	E-3	TP8	E-6	TPA15	G-3
IC052	E-5	IC7703	C-3	Q2307	D-5	TP9	E-3	TPA17	C-4
IC501	G-2	IC9351	C-2	Q2308	E-4	TP10	E-3	TPA18	B-2
IC1104	C-4	**TRANSISTOR**		Q2309	D-5	TP11	C-5	TPA19	,e-3
IC1105	C-5	Q001	F-5	Q2310	D-6	TP12	G-5	TPA20	G-3
IC1108	A-1	Q002	F-5	Q2311	D-6	TP13	G-5	TPA21	G-3
IC1251	D-4	Q051	E-5	Q2312	D-5	TP14	G-4	TPA22	D-2
IC1252	B-4	Q052	E-6	Q2534	D-2	TP15	H-4	TPA23	C-2
IC1315	D-3	Q460	G-2	Q3007	F-4	TP16	H-4	TPA36	C-5
IC2001	E-4	Q462	G-1	Q3011	F-4	TP17	G-1	TPA37	C-5
IC2301	C-6	Q463	F-3	Q3130	G-3	TP18	E-2		
IC2302	A-3	Q1106	B-3	Q3808	C-2	TP19	E-1		
IC2705	C-1	Q1107	B-4	Q7102	E-2	TP20	B-5		
IC2706	A-1	Q1115	B-5	Q7103	E-2	TP21	B-5		
IC2707	B-1	Q1121	D-4	Q7705	C-2	TP22	B-4		
IC2708	C-2	Q1336	C-2	Q7706	B-3	TP23	A-2		
IC2709	C-1	Q1337	C-2	Q7707	B-2	**TPA**			
IC2710	F-4	Q1341	C-2	Q7708	B-3	TPA1	D-5		
IC3001	F-5	Q1342	C-2	Q7709	B-2	TPA2	C-3		
IC3002	G-3	Q2002	E-4	Q7710	B-3	TPA3	D-5		
IC3004	F-2	Q2003	D-4	Q7711	C-4	TPA6	A-1		
IC3005	F-2	Q2006	E-5	Q7713	C-3	TPA7	A-2		
IC7101	F-2	Q2007	E-5	Q7714	C-3	TPA9	D-5		
IC7102	D-1	Q2041	E-4	Q7715	B-3	TPA10	F-5		
IC7105	E-2	Q2301	D-5	Q7716	C-3	TPA11	E-6		
IC7108	F-2	Q2302	A-2	**TP**		TPA12	D-6		
IC7109	F-1	Q2303	B-2	TP5	F-5	TPA13	D-5		
IC7110	E-2	Q2304	D-5	TP6	F-5	TPA14	F-5		

Parts Location

A-BOARD (COMPONENT SIDE)

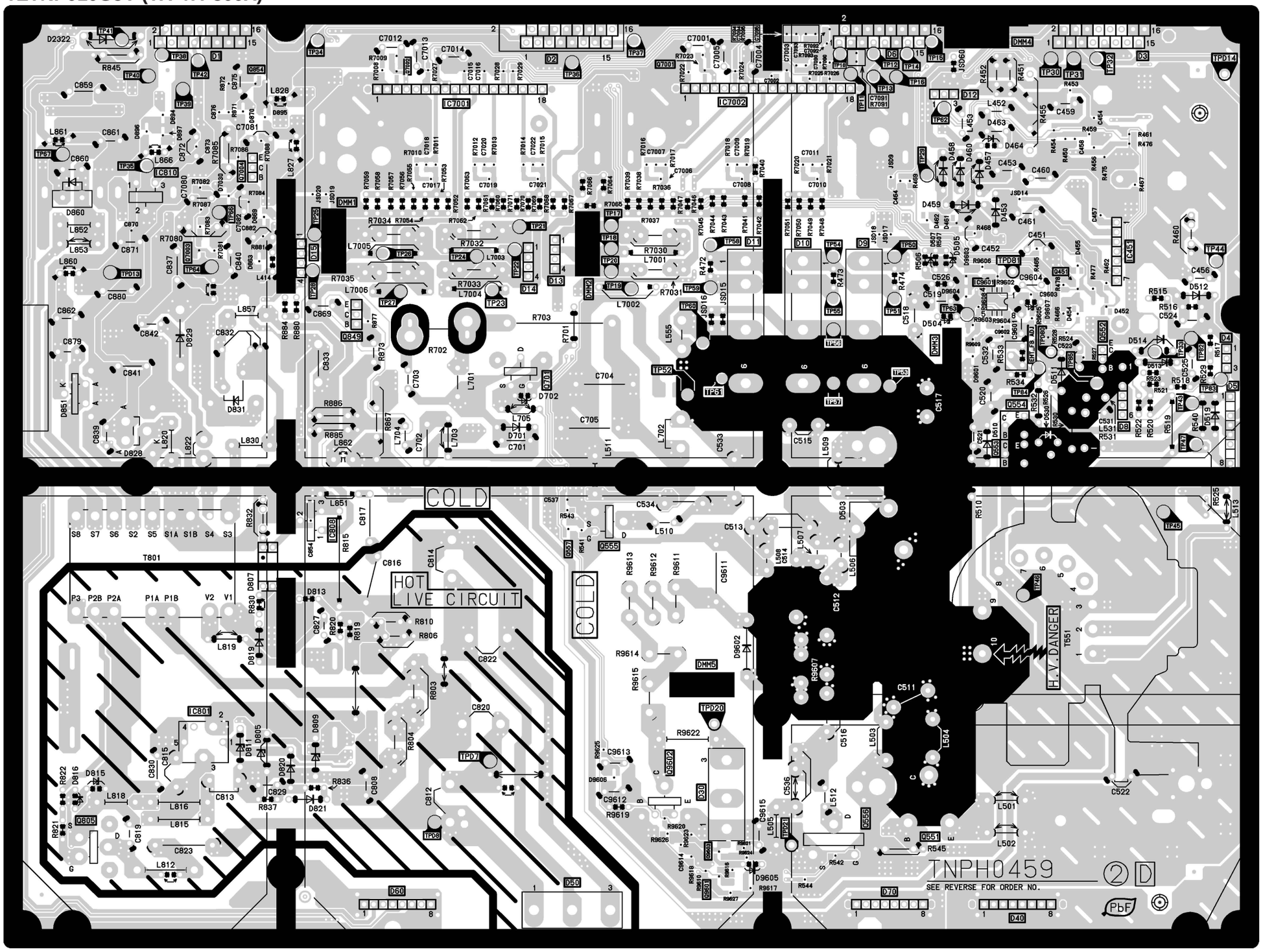
IC		TRANSISTOR		Q7718	F-3
IC051	D-6	Q461	B-1	Q7719	F-3
IC052	D-5	Q1112	A-4	Q7720	F-2
IC459	A-2	Q1113	A-5	Q7721	F-2
IC1104	F-4	Q1114	A-4	Q7722	F-3
IC1105	F-5	Q1122	E-4	Q7723	F-2
IC1107	F-5	Q2001	E-4	Q7724	F-2
IC1108	G-1	Q2004	D-4	Q7725	F-2
IC1109	C-3	Q2005	D-5	Q9301	D-2
IC1251	E-4	Q2008	D-5	Q9302	D-2
IC1252	F-4	Q2040	B-3	**TPA**	
IC1253	C-3	Q2042	C-4	TPA2	F-3
IC1254	F-6	Q2043	C-4	TPA23	E-2
IC2301	F-6	Q3006	B-4		
IC2302	G-3	Q3071	A-3		
IC2705	E-1	Q3072	B-3		
IC2706	G-1	Q3131	B-3		
IC2707	F-1	Q3132	B-3		
IC2708	F-1	Q3807	F-2		
IC2709	F-1	Q7101	C-2		
IC2710	C-4	Q7701	F-2		
IC3003	B-3	Q7702	F-3		
IC7103	D-2	Q7703	F-3		
IC7104	C-2	Q7704	F-3		
IC7106	B-2	Q7707	G-2		
IC7107	D-1	Q7708	G-3		
IC9351	E-3	Q7709	G-2		
		Q7712	E-2		
		Q7717	F-2		

D-BOARD (FOIL SIDE)
TZTNP010GFV (TX-47P500HQ/HM)
TZTNP010GHV (TX-47P500HZ)
TZTNP010GJV (TX-47P500X)

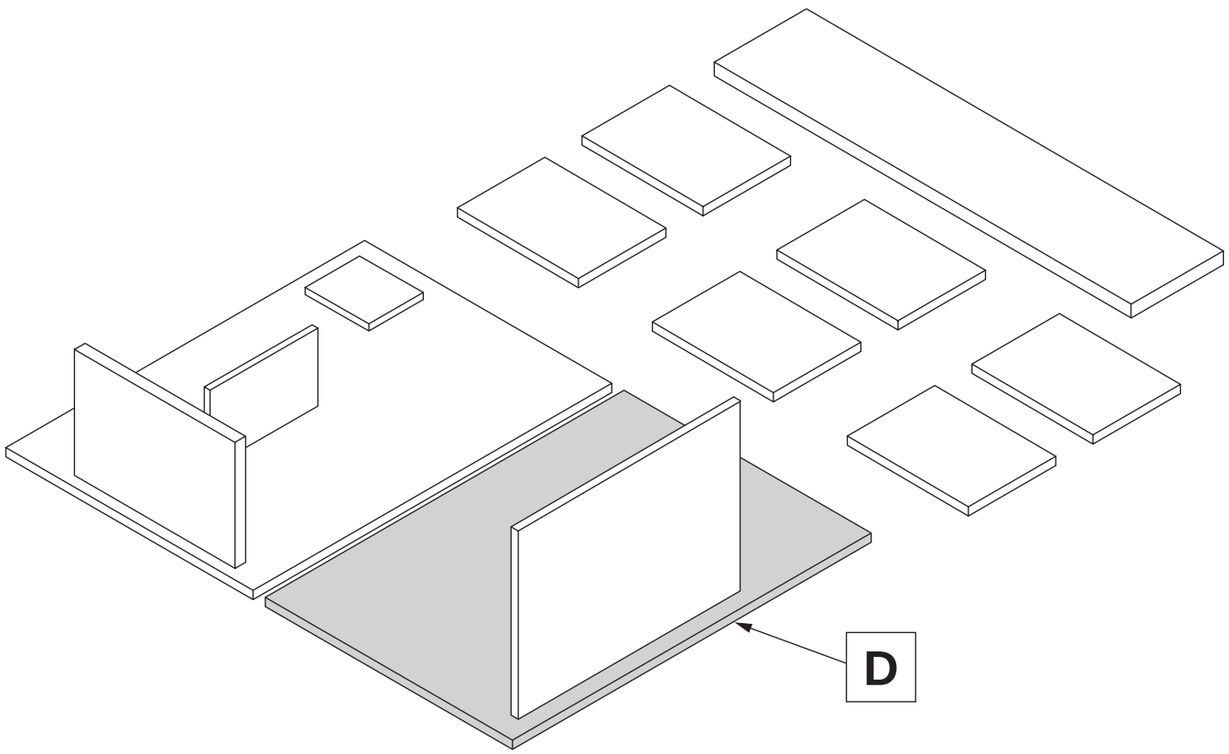


A B C D E F G H

D-BOARD (FOIL SIDE)
TZTNP010GFV (TX-47P500HQ/HM)
TZTNP010GHV (TX-47P500HZ)
TZTNP010GJV (TX-47P500X)



A B C D E F G H



Parts Location

D-BOARD (FOIL SIDE)

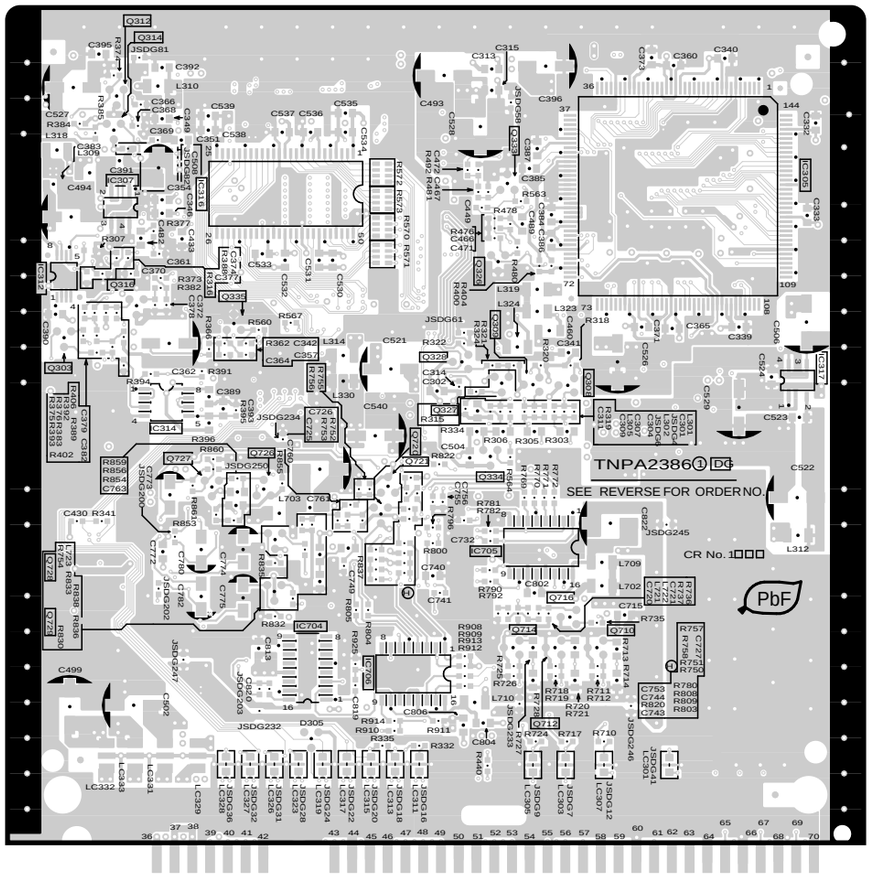
IC		TP				TPD	
IC451	G-5	TP10	E-6	TP38	B-6	TP85	G-4
IC801	B-2	TP11	F-5	TP39	B-5		
IC808	C-3	TP12	F-6	TP40	A-6		
IC810	B-5	TP13	F-6	TP41	A-6		
IC7001	C-5	TP14	F-6	TP42	B-6		
IC7002	E-5	TP15	F-6	TP43	G-4		
IC9601	F-4	TP16	F-6	TP44	H-5		
TRANSISTOR		TP17	D-5	TP45	G-3		
Q451	G-5	TP18	D-5	TP46	G-3		
Q551	F-1	TP19	D-4	TP47	G-4		
Q552	G-4	TP20	D-5	TP50	F-5		
Q553	F-4	TP21	D-5	TP51	F-4		
Q554	F-4	TP22	D-5	TP52	D-4		
Q555	D-3	TP23	D-4	TP53	F-4		
Q556	F-1	TP24	C-5	TP54	E-5		
Q557	D-3	TP25	C-5	TP55	E-4		
Q701	D-4	TP26	C-5	TP56	E-4		
Q805	A-1	TP27	C-4	TP57	E-4		
Q849	C-4	TP28	B-4	TP58	E-5		
Q854	B-6	TP29	F-5	TP59	E-4		
Q7001	D-6	TP30	G-6	TP60	E-4		
Q7002	C-6	TP31	G-6	TP61	E-4		
Q7003	B-5	TP32	G-6	TP62	F-5		
Q7004	B-5	TP33	G-4	TP63	F-4		
Q9601	E-1	TP34	C-6	TP64	B-5		
Q9602	D-2	TP35	A-5	TP66	B-5		
Q9603	E-1	TP36	D-6	TP67	A-5		
		TP37	D-6	TP82	G-4		
				TP83	G-4		
				TP84	F-4		

Parts Location

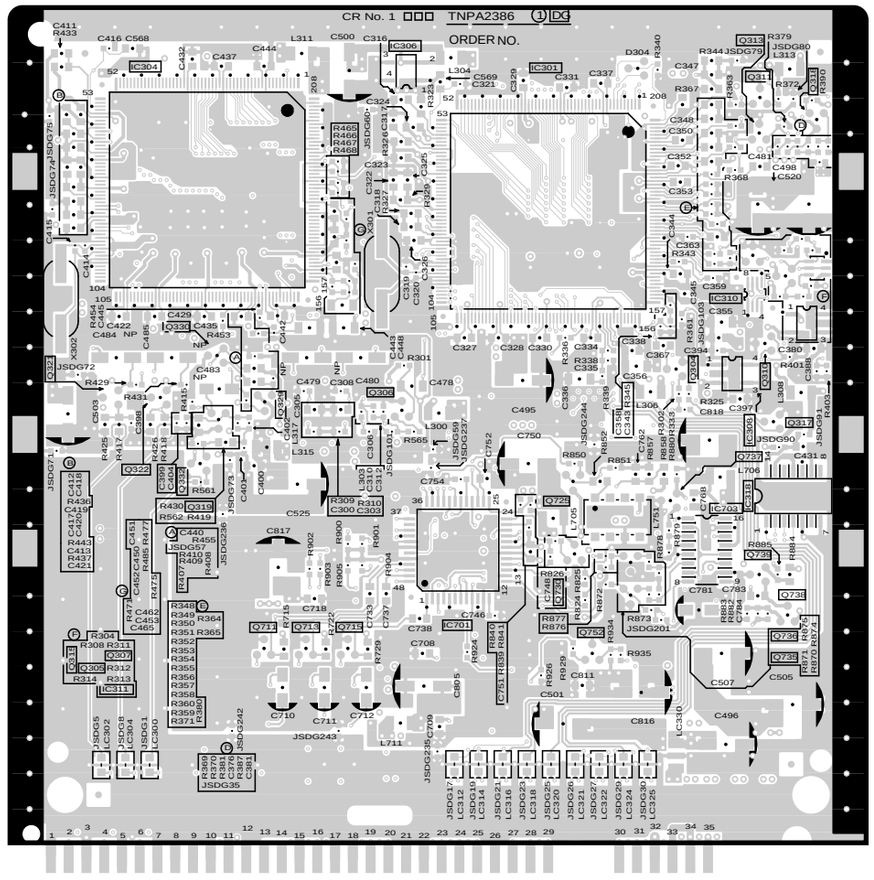
D-BOARD (COMPONENT SIDE)

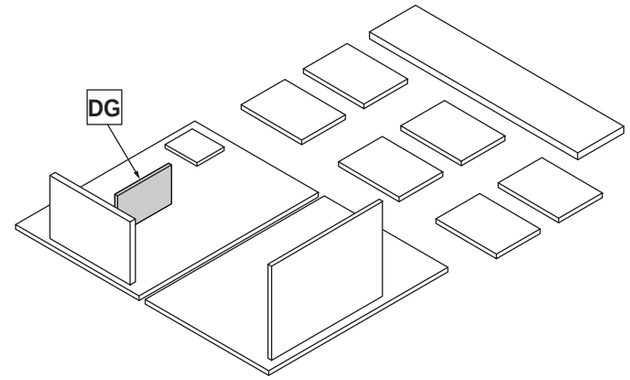
IC		TRANSISTOR		TPD	
IC451	A-5	Q551	C-1	TPD14	A-6
IC801	G-2	Q552	B-4	TPD20	D-2
IC808	F-3	Q553	B-3	TPD21	C-1
IC810	G-5	Q554	B-4	TPD80	B-4
IC7001	E-6	Q555	D-3	TPD81	B-5
IC7002	C-6	Q556	C-2		
		Q701	E-4		
		Q805	G-1		
		Q849	F-4		
		Q7004	F-5		
		Q9602	D-2		

DG-BOARD (FOIL SIDE) TXNDG10GFV



DG-BOARD (COMPONENT SIDE) TXNDG10GFV

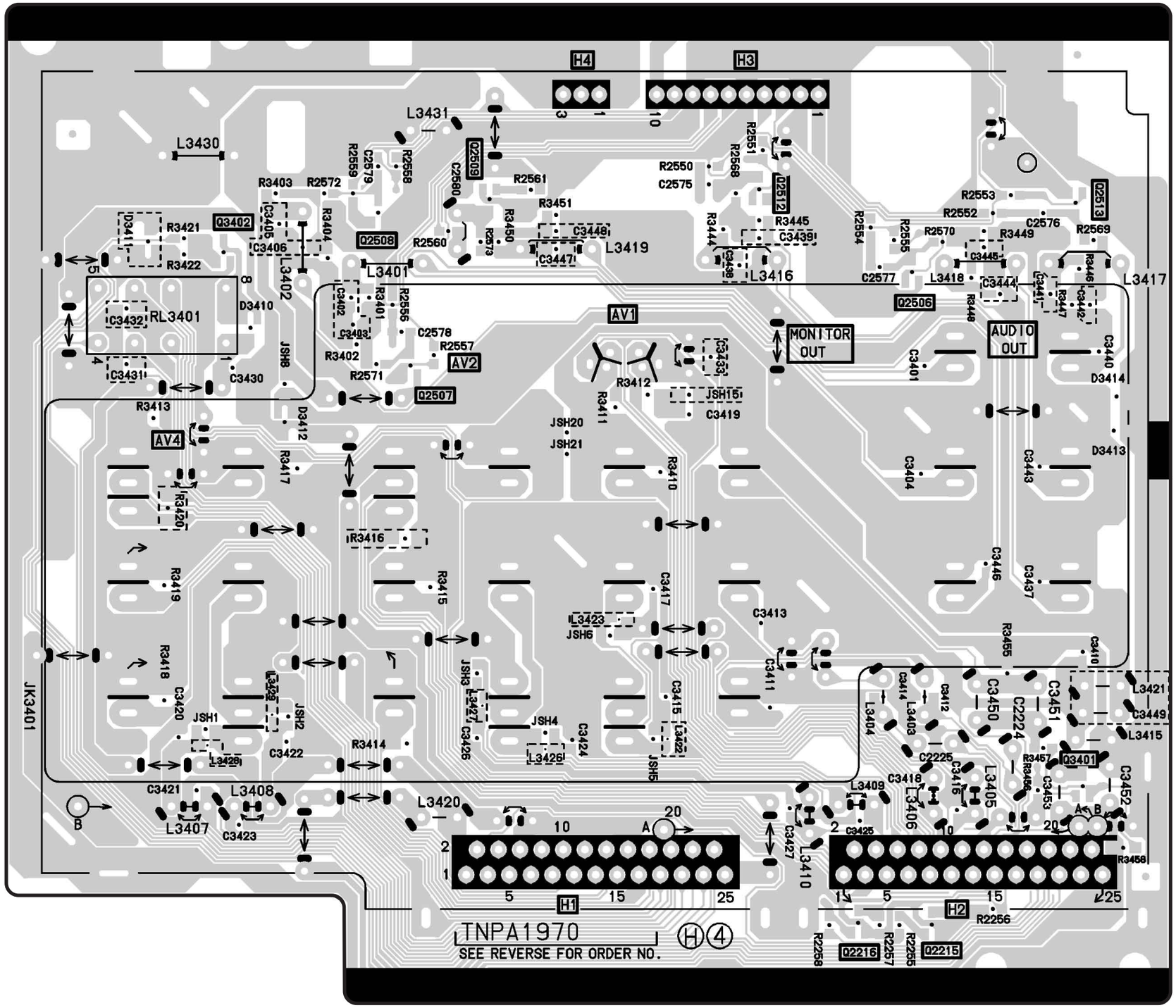


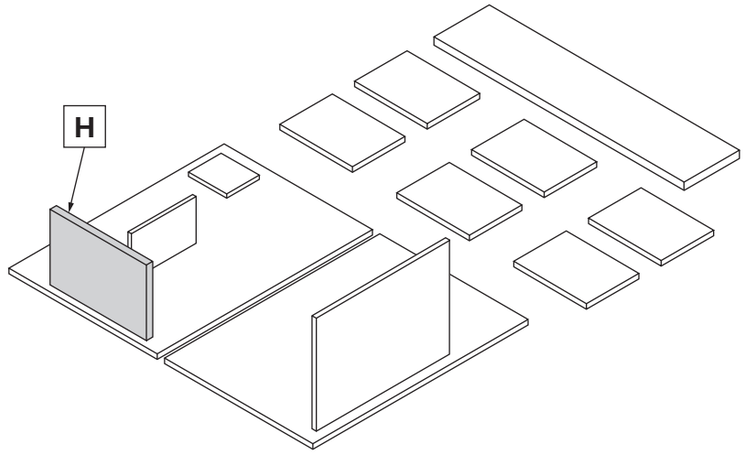


Parts Location

DG-BOARD			
IC		**TRANSISTOR**	
IC1301	F-5	Q1318	G-5
IC1304	D-5	Q1319	E-3
IC1305	C-5	Q1321	D-4
IC1306	E-5	Q1322	D-3
IC1307	A-5	Q1326	B-4
IC1308	G-4	Q1327	B-4
IC1310	G-4	Q1328	B-4
IC1311	D-3	Q1329	E-4
IC1312	A-4	Q1330	E-4
IC1314	A-4	Q1332	E-3
IC1316	A-4	Q1333	B-5
IC1317	D-4	Q1334	B-3
IC1318	G-3	Q1335	A-4
IC1701	F-3	Q1710	C-3
IC1703	G-3	Q1711	E-3
IC1704	B-3	Q1712	C-3
IC1705	B-3	Q1713	E-3
IC1706	B-3	Q1714	B-3
		Q1715	E-3
TRANSISTOR		Q1716	C-3
Q1303	A-4	Q1720	B-4
Q1304	F-4	Q1721	B-4
Q1305	D-3	Q1725	F-3
Q1306	E-4	Q1726	B-4
Q1307	D-3	Q1727	A-4
Q1308	C-4	Q1728	A-3
Q1309	B-4	Q1729	A-3
Q1310	G-4	Q1730	F-3
Q1311	G-5	Q1735	G-3
Q1312	A-5	Q1736	G-3
Q1313	G-5	Q1737	G-4
Q1314	A-5	Q1738	G-3
Q1315	D-3	Q1739	G-3
Q1316	A-4	Q1752	F-3
Q1317	G-4		

H-BOARD
TNPA1970AP





Parts Location

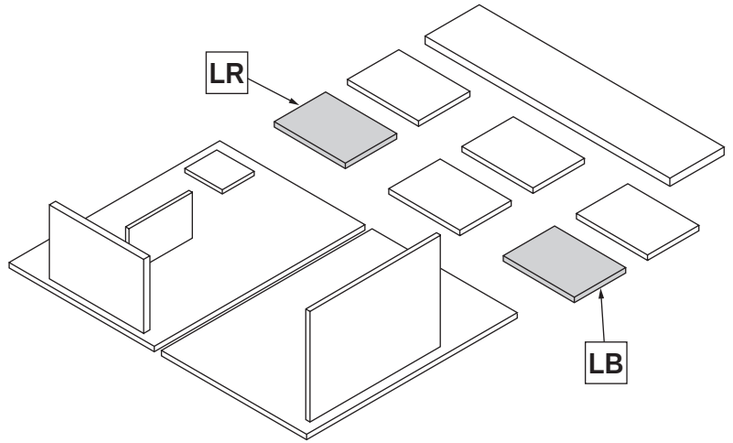
H-BOARD	
TRANSISTOR	
Q2215	F-1
Q2216	E-1
Q2506	E-4
Q2507	C-4
Q2508	C-5
Q2509	C-5
Q2512	E-5
Q2513	F-5
Q3401	F-2
Q3402	B-5

Parts Location

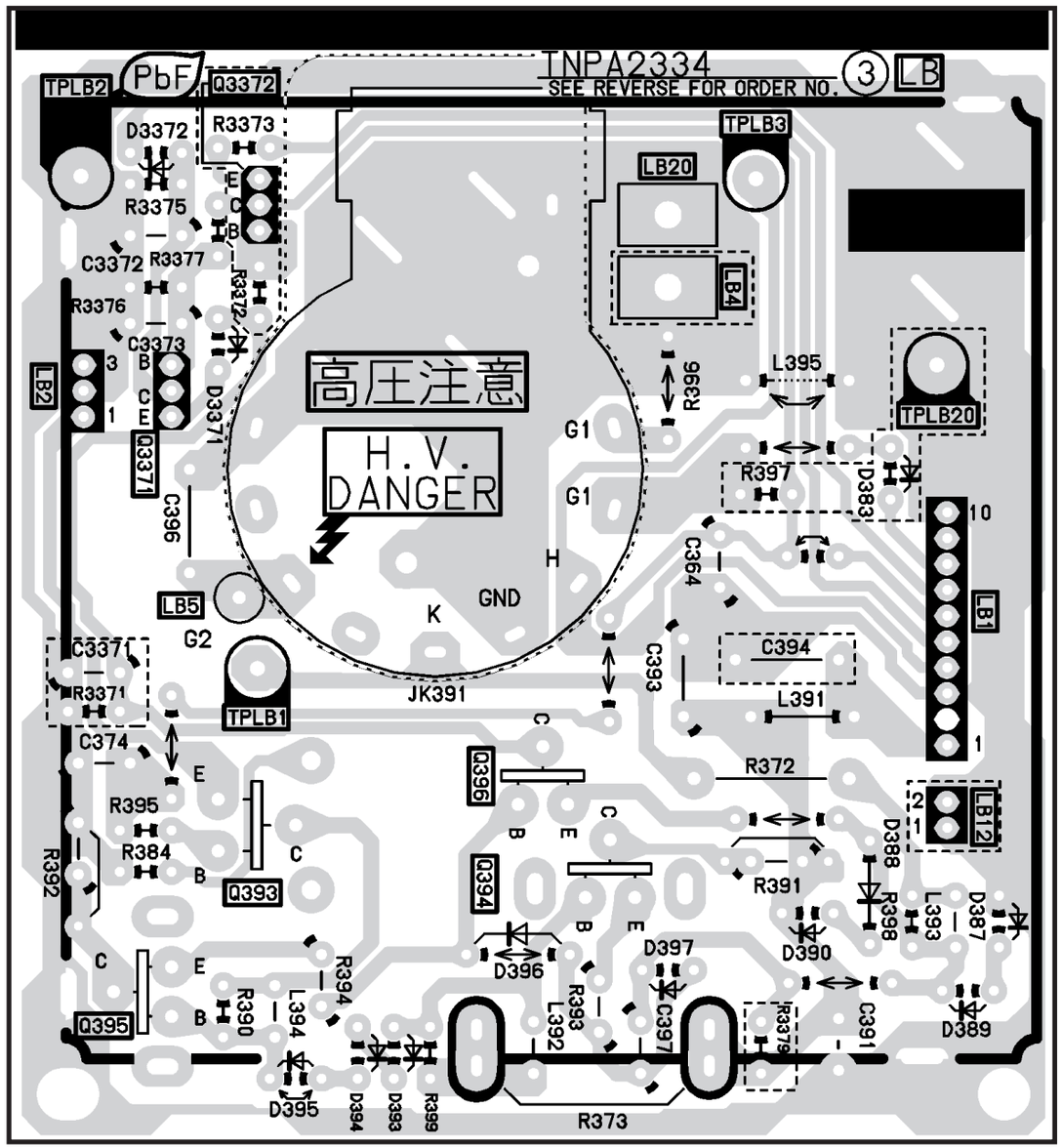
LB-BOARD			
TRANSISTOR		TPLB	
Q393	B-2	TPLB1	B-2
Q394	C-2	TPLB2	A-5
Q395	A-1	TPLB3	D-5
Q396	C-2	TPLB20	D-3
Q3371	A-3		
Q3372	B-5		

Parts Location

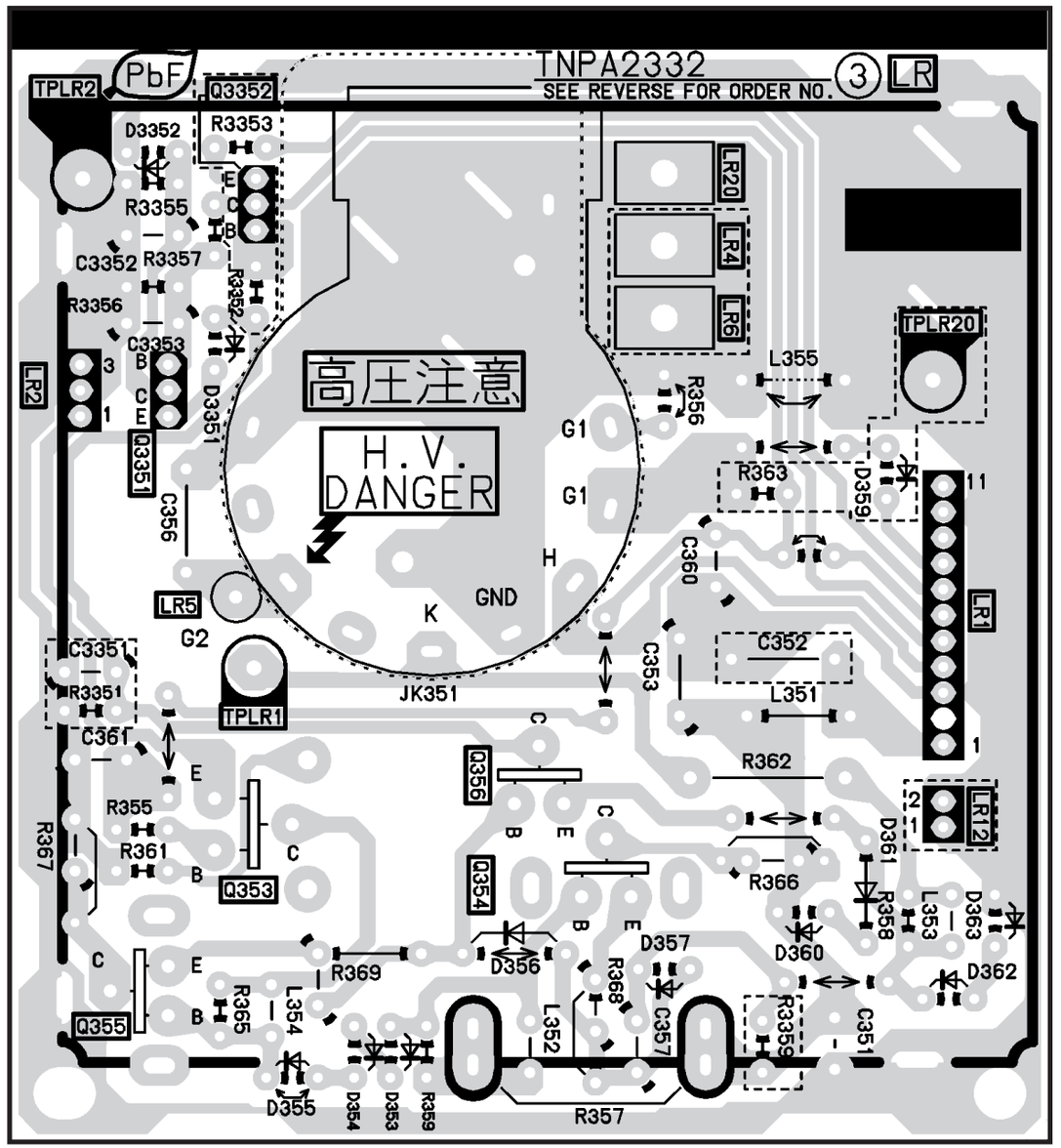
LR-BOARD			
TRANSISTOR		TPLR	
Q353	F-2	TPLR1	F-2
Q354	G-2	TPLR2	E-5
Q355	E-1	TPLR20	I-4
Q356	G-2		
Q3351	F-3		
Q3352	F-5		



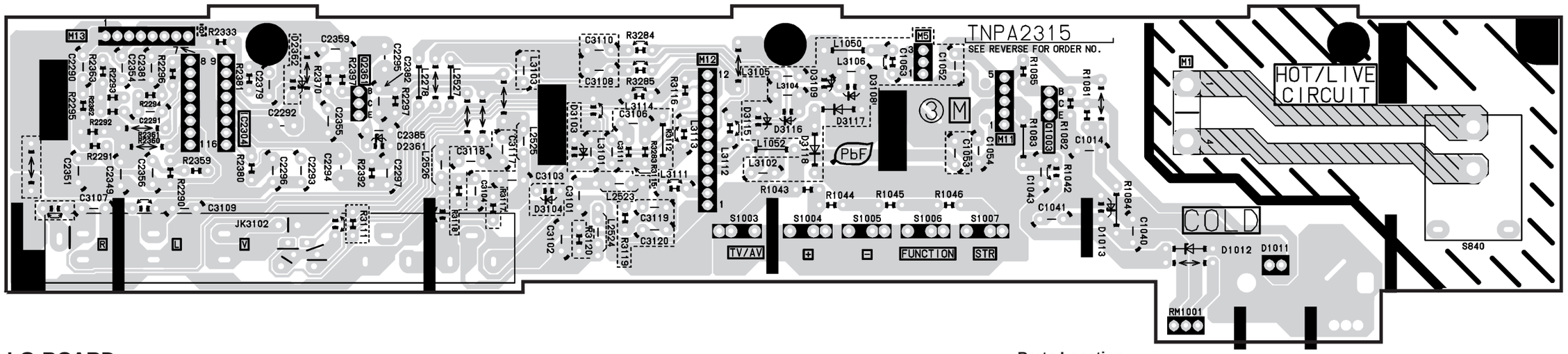
LB-BOARD
TNPA2334AD



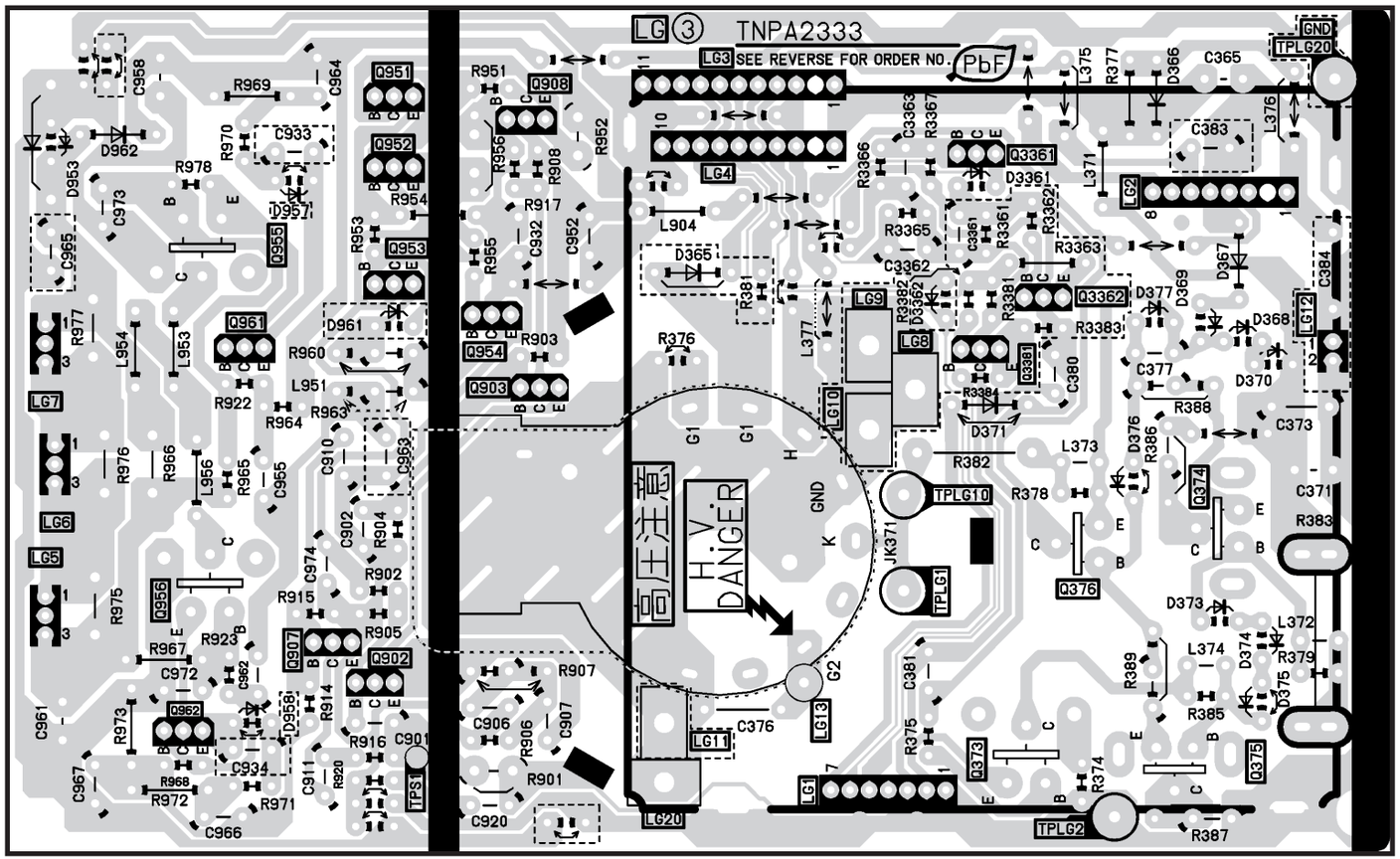
LR-BOARD
TNPA2332AD



M-BOARD
TNPA2315

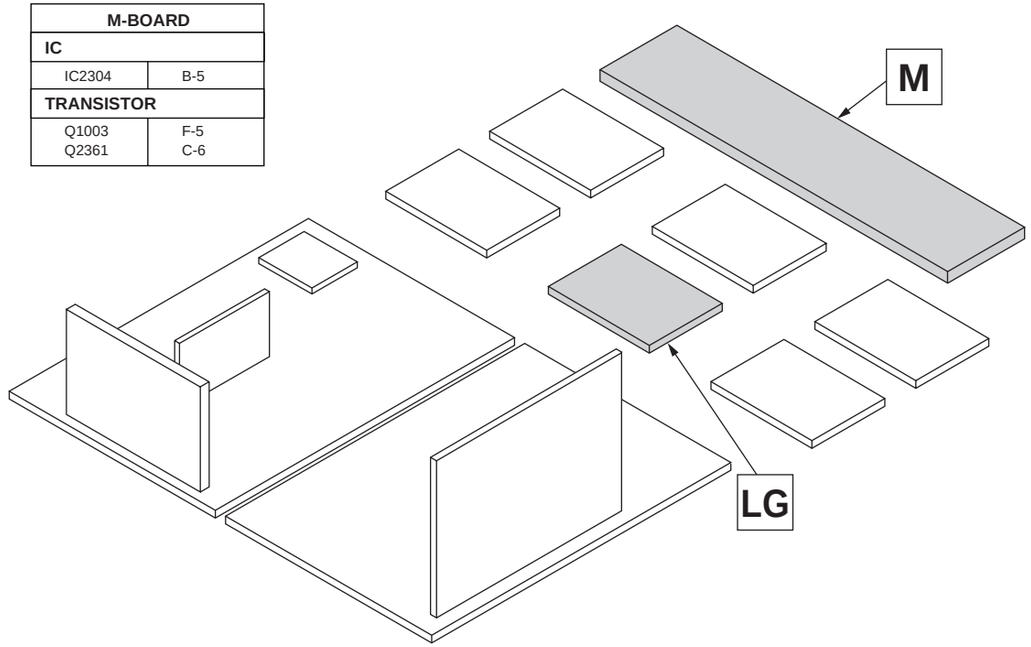


LG-BOARD
TNPA2333AD



Parts Location

M-BOARD	
IC	
IC2304	B-5
TRANSISTOR	
Q1003	F-5
Q2361	C-6

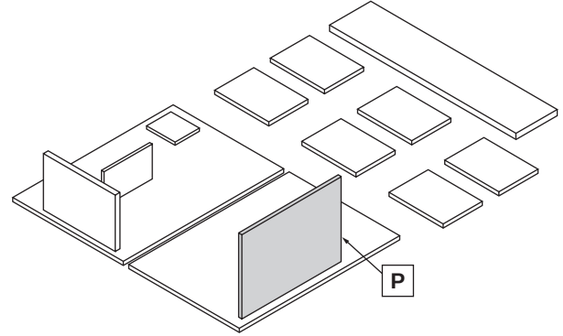


Parts Location

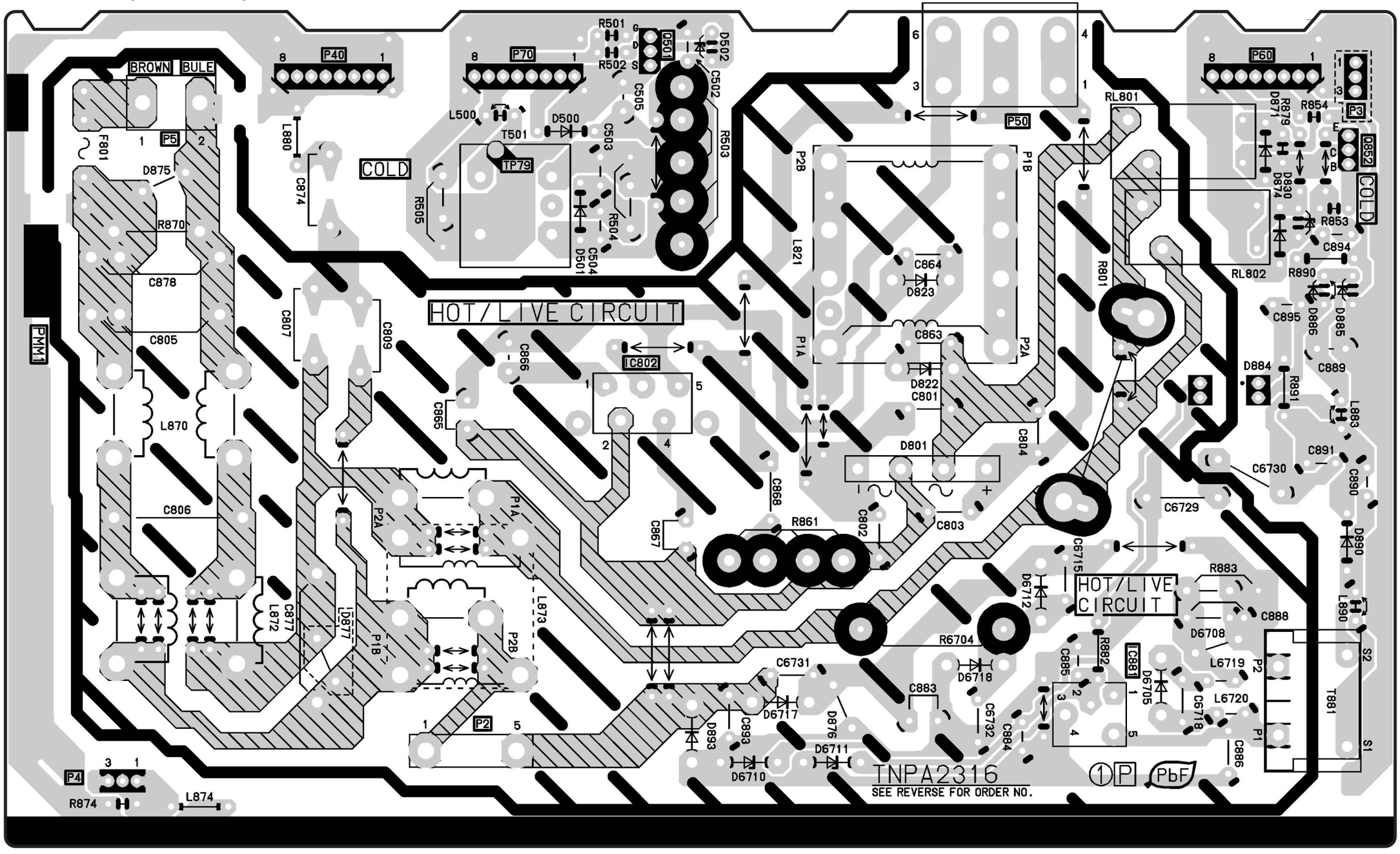
LG-BOARD					
TRANSISTOR		Q952	B-3	**TPLG**	
Q373	D-1	Q953	B-3	TPLG1	D-2
Q374	E-2	Q954	C-3	TPLG2	E-1
Q375	E-1	Q955	B-3	TPLG10	D-2
Q376	E-2	Q956	A-2	TPLG20	F-4
Q902	B-2	Q961	B-3	**TPS**	
Q903	C-3	Q962	A-1	TPS1	B-1
Q907	B-2	Q3361	E-3		
Q908	C-4	Q3362	E-3		
Q951	B-4	Q3381	E-3		

Parts Location

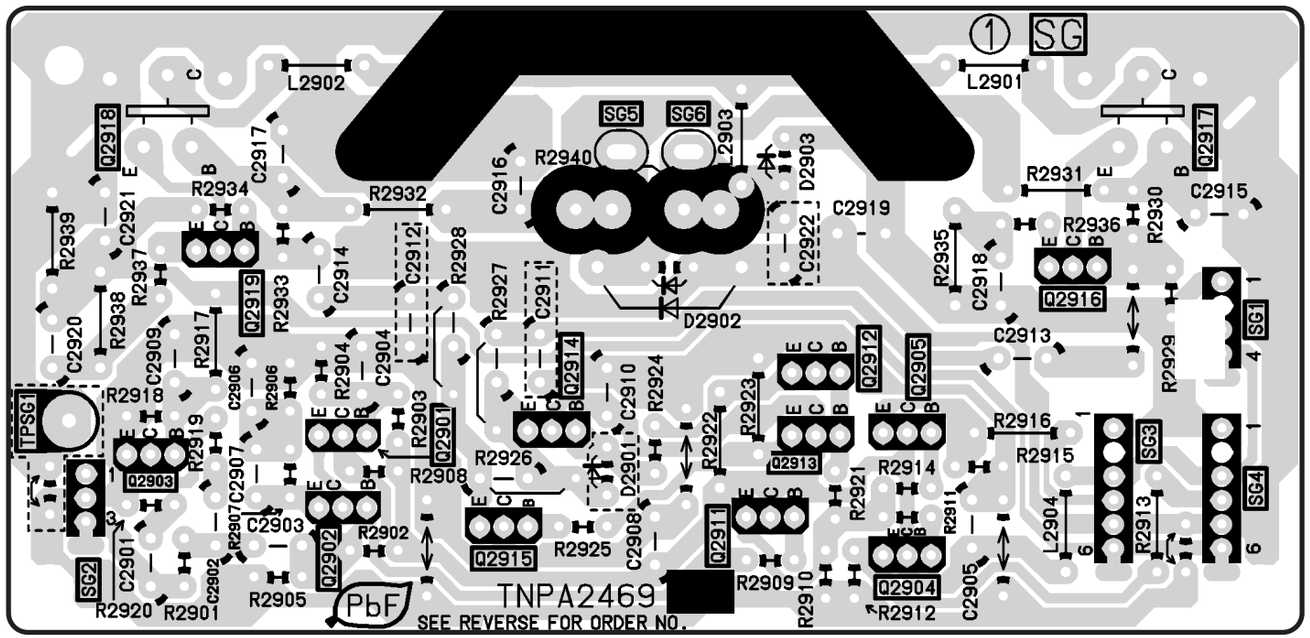
P-BOARD			
IC		TP	
IC802 IC881	D-3 G-2	TP79	D-5
TRANSISTOR			
Q501 Q852	D-5 H-5		

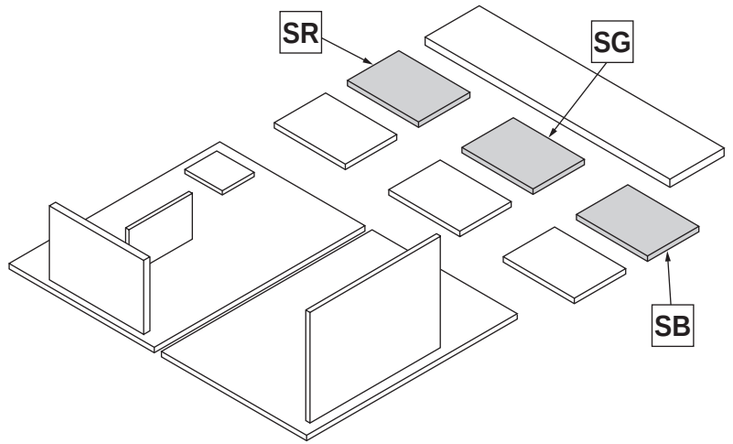


P-BOARD
TNPA2316AJ (TX-47P500HM)
TNPA2316AK (TX-47P500HQ/HZ)
TNPA2316AL (TX-47P500X)

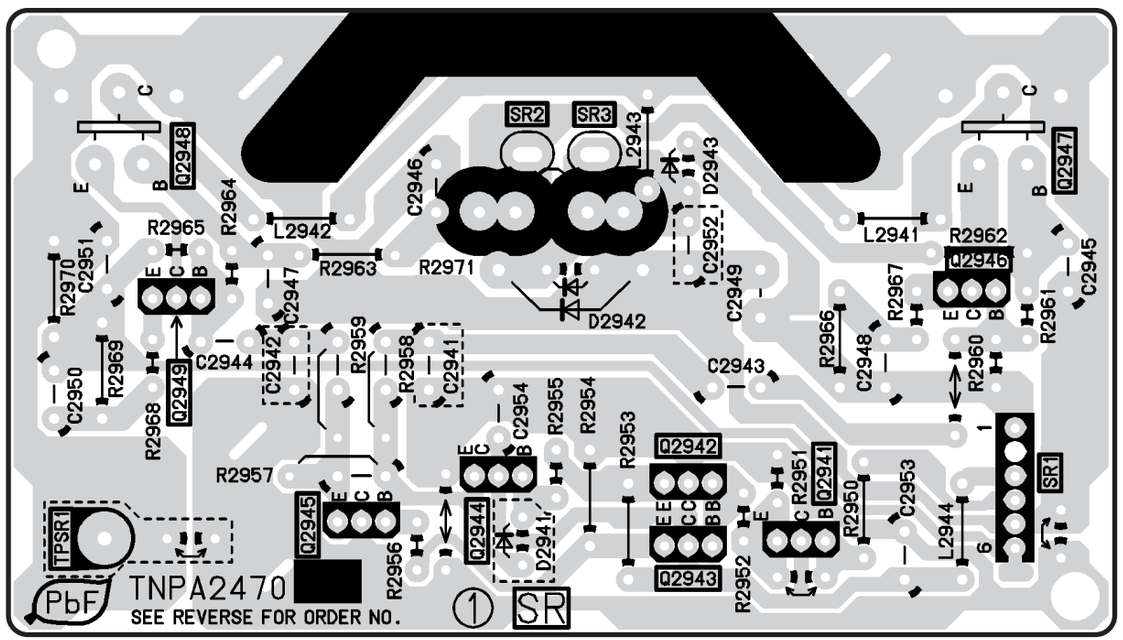


SG-BOARD
TNPA2469

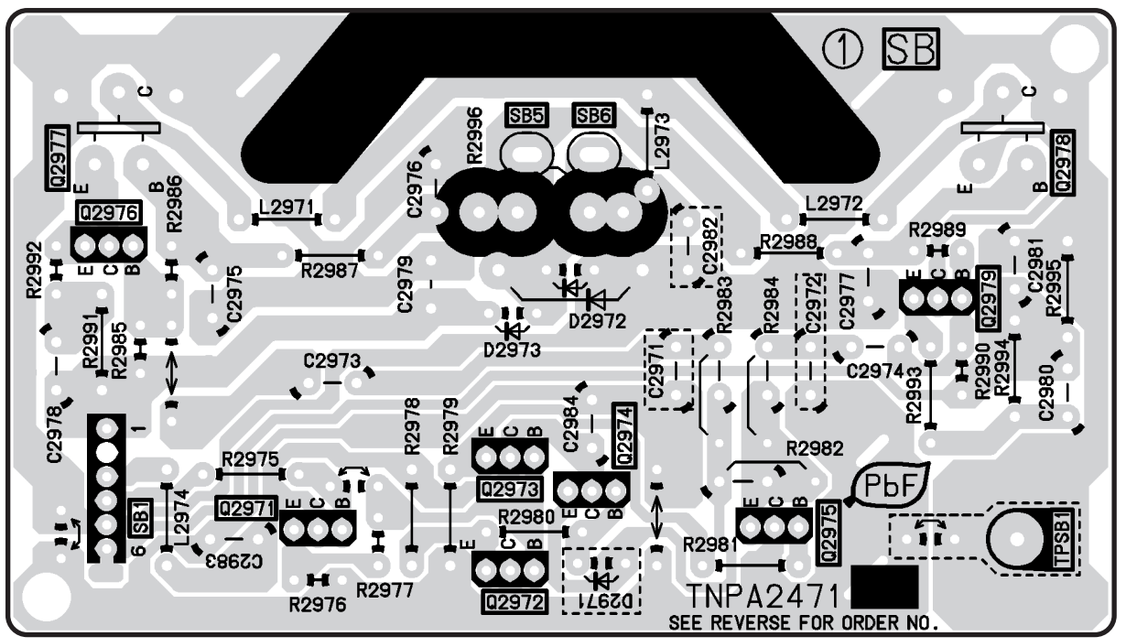




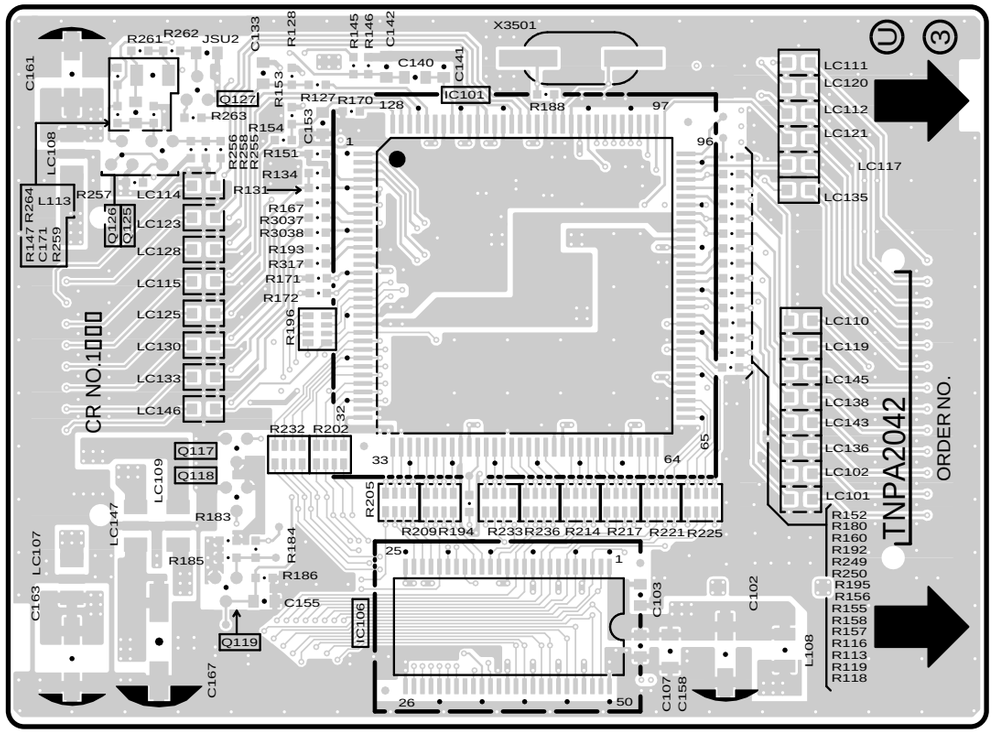
SR-BOARD
TNPA2470

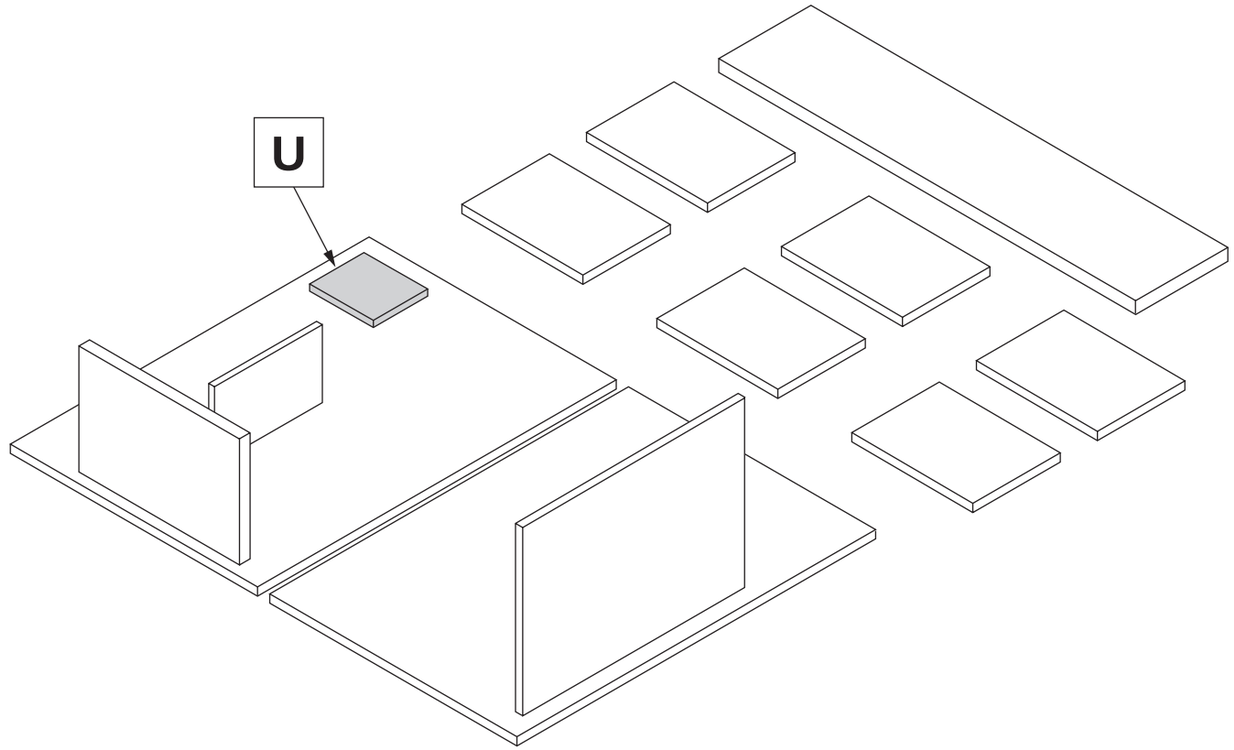


SB-BOARD
TNPA2471

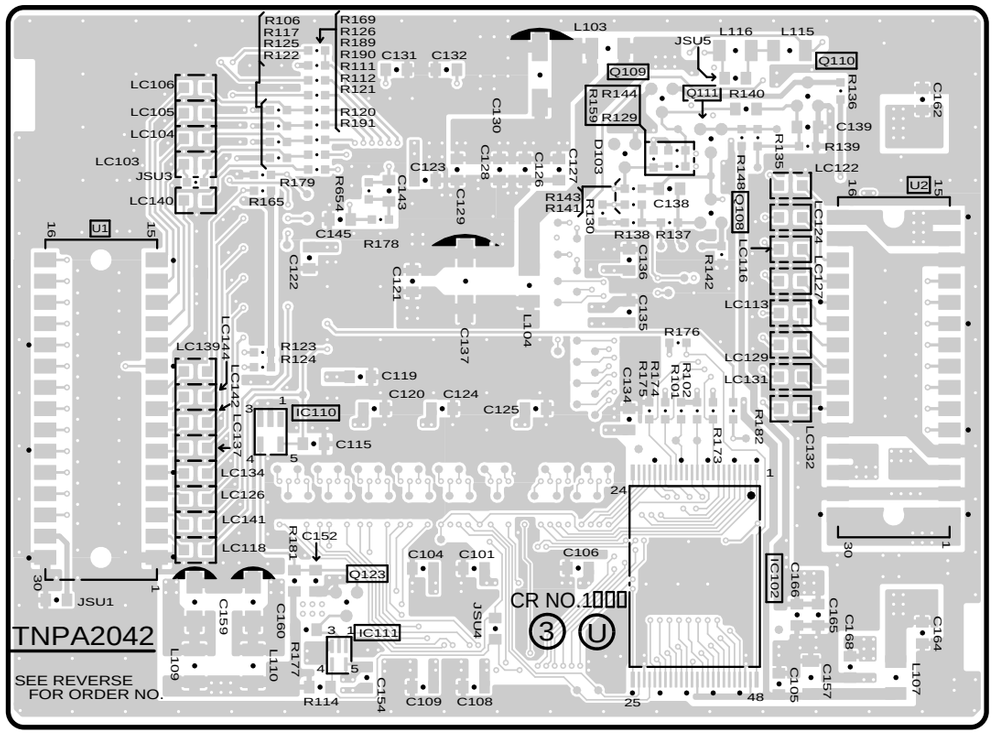


U-BOARD (COMPONENT SIDE)
TXN/U10GFV





U-BOARD (FOIL SIDE)
TXN/U10GFV



Parts Location

U-BOARD			
IC		**TRANSISTOR**	
IC1101	B-6	Q1108	C-3
IC1102	C-1	Q1109	C-3
IC1106	B-4	Q1110	D-3
IC1110	B-2	Q1111	C-3
IC1111	B-1	Q1117	A-5
		Q1118	A-5
		Q1119	B-4
		Q1123	B-1
		Q1125	A-5
		Q1126	A-5
		Q1127	B-6

A-BOARD TZTNP020GFV (1/4)

IC2301
C1AA00000348
L,R AMP

IC2001
TVSA0431
MSP

IC052
AN7805F-LB

IC051
AN7805F-LB
AVR 5V

IC2302
AN7108
MAIN-HP AMP

TO
Z-BOARD
(Z10)

TO
M-BOARD
(M13)

A-BOARD TZTNP020GFV (2/4)

TO H-BOARD (H2)

TO H-BOARD (H1)

TO A-BOARD (A18)

TO M-BOARD (M12)

TO M-BOARD (M11)

TO U-BOARD (U1)

TO U-BOARD (U2)

IC3001 C1AB00000459 AV SWITCH

IC3002 TDA8601T/C1

IC3003 C1AB00000437

IC3004 C0ZBZ0000451

IC3005 C0ZBZ0000451

IC1104 C3EAGC000014 ST24C16CB1 TVRJ653 EEPROM

IC1107 C0JBAZ001839

IC1105 C0EAH0000067

IC1108 AN78L05-TA AVR 5V

IC1251 C0DAEGG00007

IC1252 C0DAEZH0000B

IC1253 C0FBBD000084

IC1254 PST9128NR

IC2706 C0DACMG00001

IC2707 AN7808LB

IC2708 C0DAAHH00020

Q3007 B1ABCD000004 2SD0601A0L

Q3011 2SD0601A0L B1ABC0000004

Q3071 B1ABC0000004 2SD0601A0L

Q3072 B1ABC0000004 2SD0601A0L

Q3130 B1ABC0000004 2SD0601A0L

Q3131 MBF709 2SB0709A0L

Q1107 B1ABCD000004 2SD0601A0L

Q1121 B1ABCD000004 2SD0601A0L

Q1122 B1ABCD000004 2SD0601A0L

Q1115 B1ABCD000004 2SD0601A0L

D3050 MAZ31200ML

D3004 MAZ30910LL

D3005 MAZ30910LL

D3010 MAZ3091 00L

D3008 MAZ3091 00L

D3009 MAZ3091 00L

D3011 MAZ3091 00L

D3012 MAZ3091 00L

D3007 MA3X157A0L

D2314 MA3X152K0L

D1154 MAZ30390HL

D3006 MAZ30910LL

9	10	11	12	13	14	15	16	17

A-BOARD TZTNP020GFV (3/4)

RGB PROCESSOR

IC1315 AN5394FB

IC9351 AN78N09-LB

IC2710 C0DAEGG00007

IC1109 PST9119NR

IC2705 C0DACMG00001

IC2709 C0DACMG00001

IC1702 C1ABD0000441

IC7703 AN6912S

IC501 C0BBBA000043 AN6914S

IC459 C0JBAM000065 TC74HC221AF

Q2534 2SC3767GLL

Q9302 2SB709A0L

TO DG-BOARD

TO LG-BOARD (LG1)

TO DG shield case

TO D-BOARD (D2)

TO D-BOARD (D3)

TO D-BOARD (D1)

TO D-BOARD (D6) convergence

18 19 20 21 22 23 24 25 26

⚠ A-BOARD TZTNP020GFV (4/4)

IC7121
C1AB00000454

IC7107
C1AB00001220

IC7102
24LC64

IC7103
C0JBAB000003

IC7101
AN78L05M

IC7104
C0FBBH000040

IC7110
C1AB00001394

IC7105
C0ABAA000053

IC7106
C0ABAA000053

IC7109
AN79L12M

IC7108
AN78L12M

Q7101
XN0150100L

Q7103
MSB709
2SB0709A0L

Q7102
MAX152E0L

Q7102
RS4R002000004
2SD0601A0L

D7101
MA3X157A0L

Q7103
MAX152K0L

L7008
10

L7007
22

OSD IN

OSD OUT

D-BOARD (1/2)
TZNP010GFV (TX-47P500HM/HQ)
TZNP010GHV (TX-47P500HZ)
TZNP010GJV (TX-47P500X)

LIVE CIRCUIT

HOT

COLD

TO A-BOARD (A1)

TO P-BOARD (P60)

TO A-BOARD (A2)

TO P-BOARD (P50)

TX-47P500X

TX-P500HM/HQ/HZ

IC801
C5HABZZ00014

IC808
C0EAS0000025

IC810
AN7812LB

Q805
2SK2123000LB

Q854
B1ABC0000004
2SD0601A0L
BC847B

Q849
2SA1961QAHN

PROTECTOR

BTL 30V

+140V

-18V

D-BOARD (2/2)
TZNP010GFV (TX-47P500HM/HQ)
TZNP010GHV (TX-47P500HZ)
TZNP010GJV (TX-47P500X)

BLUE GREEN RED

TO A-BOARD (A6)
TO A-BOARD (A3)
TO P-BOARD (P40)

IC7002 C5AA00000108
IC7001 C5AA00000108

Q7001 B1ABC0000004 2SD2661A0L BC847B
Q7002 B1ABC0000004 2SD2661A0L BC847B

Q551 B1BAJW000002
Q556 2SK1365
Q555 2SK1608000LB
Q557 B1ABC0000004 2SD2661A0L BC847B

Q701 2SK2538000LB

IC451 C1AA00000529
TUC256751

DYNAMIC FOCUS

Q9601 B1BF709 2SB0709A0L BC857B
Q9602 B1BAAV000003
Q9603 B1ABC0000004 2SD2661A0L BC847B

Q552 2SC1473
Q553 2SC14730L
Q554 2SC14730L

IC9601 AN6562S C0ABBA000073

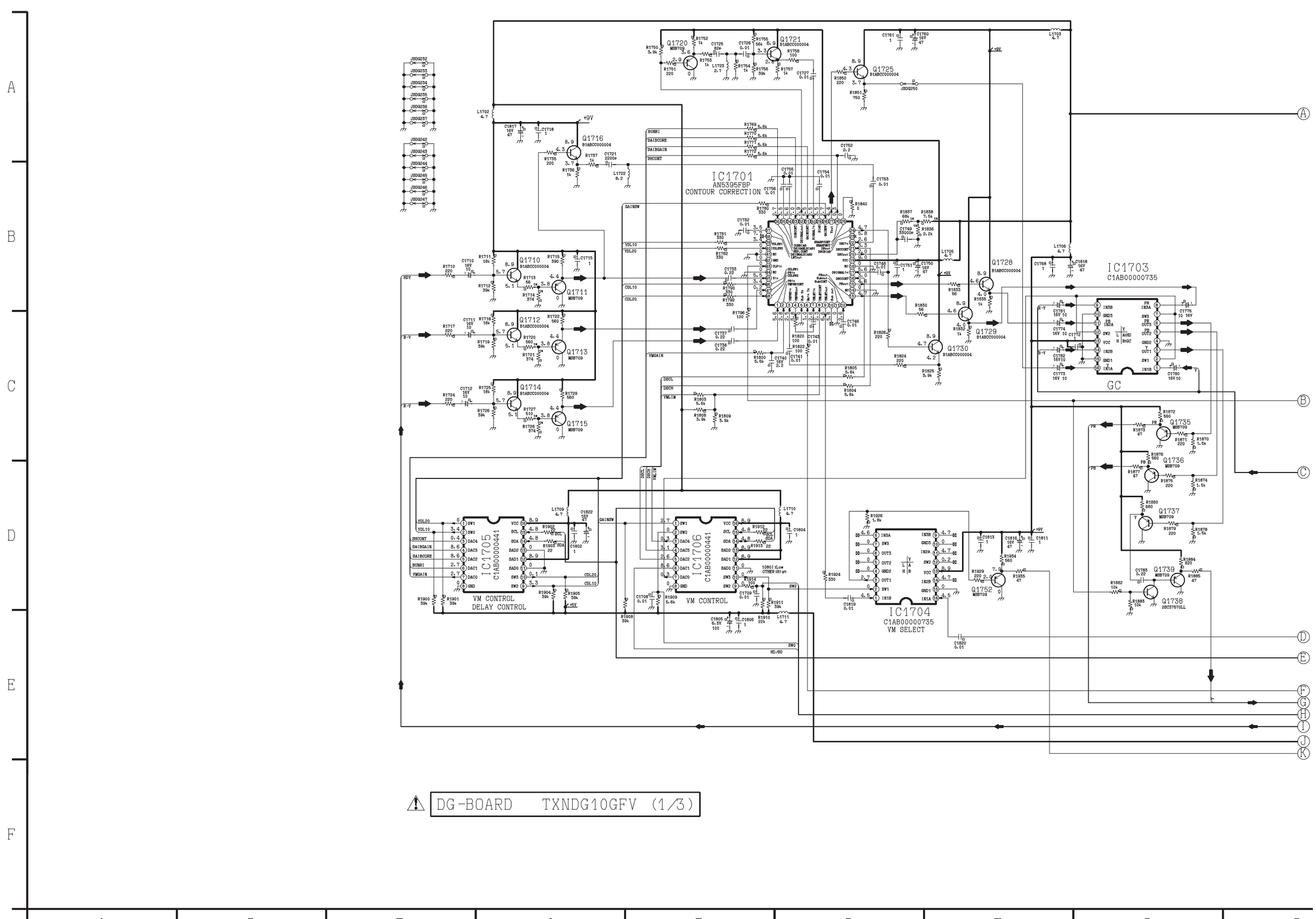
FOCUS PACK
DQZZ0000007S
TO LG-CRT SOCKET
TO LR-CRT SOCKET
TO LB-CRT SOCKET
TO LR5
TO LB5
TO LG13

DY-B G0GF100000004
DY-G G0GF100000004
DY-R G0GF100000004

H.V. DISTRIBUTOR
KFT7CPS356F
TO RED CRT ANODE
TO GREEN CRT ANODE
TO BLUE CRT ANODE

TO P-BOARD (P70)
TO LG-BOARD (LG2)
TO SG-BOARD (SG1)

9 10 11 12 13 14 15 16 17


IC1701
AN5395FBP
CONTOUR CORRECTION
IC1703
C1AB00000735
GC
IC1705
C1AB00000441
VM CONTROL
DELAY CONTROL
IC1706
C1AB00000441
VM CONTROL
IC1704
C1AB00000735
VM SELECT
Q1710
Q1711
Q1712
Q1713
Q1714
Q1715
Q1716
Q1720
Q1721
Q1725
Q1728
Q1729
Q1730
Q1735
Q1736
Q1737
Q1738
Q1739
Q1752
+9V
HDY
B-Y
R-Y
BUNRI
BAIBCORE
BAIBGAIN
SHCONT
GAINSW
YDL10
YDL20
CDL10
CDL20
VMGAIN
DBCL
DBCH
VMLIM
HD/BD
DG-BOARD TXNDG10GFV (1/3)

IC1306
C0CBABB00029
REG. 3.3V

IC1301
C1AB00001494
C1AB00001468

GC1
MAIN
SLV [88]

(MB87L1973)

HEAT SINK : TUC25653
TAPE : TWFT2020Q024

U/V IN
Y IN
B-Y IN
R-Y IN
CLAMP
Y IN

U/V OUT
Y OUT

IC1307
C0CBABB00029

IC1312
C0ABBA000075

IC1310 C0JBAZ000280

IC1311
C0CBABB00029

IC1314
C0ABBA000073

IC1308
C0CBABB00029

IC1318
C0JBAB000280

IC1316
16M SDRAM

IC1305
SDA9415

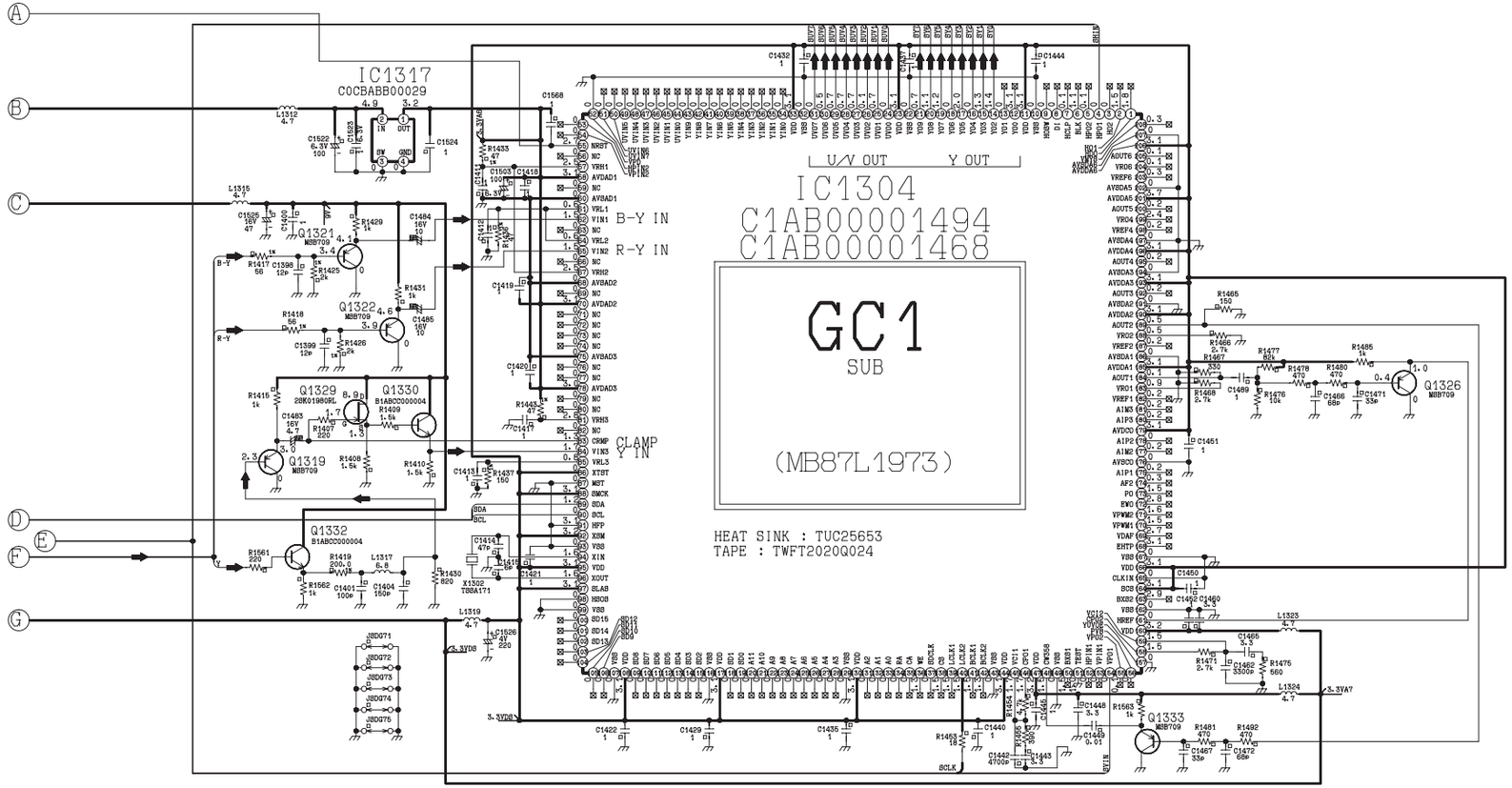
MAIN

SUB

VDU
SLV [BC]
MOTION COMPENSATED
SCAN RATE CONVERSION
MAIN/SUB MIX
V ZOOM/COMP
3D-PNR

DG-BOARD TXNDG10GFV (2/3)

⚠ DG-BOARD TXNDG10GFV (3/3)



H-BOARD TNPA1970AP

JK3401
TJB4G639

MONITOR OUT
AV1
AV2
AV4

C3410 560p

JSH5 JSH6 JSH4 JSH3 JSH1 JSH2

L3415 EXCELDR35 TSKA038-1
D3411 MAZ3020001

C3415 560p
C3417 560p
C3424 560p
C3426 560p
C3420 560p
C3422 560p

L3406 JW
L3409 JW
L3408 JW
L3407 JW
L3410 JW
L3405 JW
L3404 ELEGN1R5KA GQCIR5KA0004
C3414 560p

R3412 75 1k
C3419 16V 1

L3403 ELEGN1R5KA GQCIR5KA0004
C3412 560p

C3430 16V 0.1
D3410 MA3X152K0L DAN212K
RL3401 KSB2CFA00015
LOADER IIC_SW

C2224 50V 10
C2225 50V 10

Q2215 2SD0601A0L B1ABCC000004
R2255 1k
R2256 100k
Q2216 B1ABCC000004 2SD0601A0L
R2257 100k
R2258 1k

Q3402 2SD0601A0L B1ABCC000004
R3421 1k
R3422 47k
8.9

L3420 4.7
R3458 330
C3453 16V 100
C3452 16V 100
C3451 10V 220
R3457 75
5.1
4.4
R3455 100k
C3450 10V 220
R3456 330
Q3401 2SB0709A0L M6B709

H2
H1

TO A-BOARD (A11)
TO A-BOARD (A10)

LR-BOARD TNPA2332AD

LG-BOARD TNPA2333AD

LB-BOARD TNPA23343AD

CRT DRIVE RED

CRT DRIVE GREEN

CRT DRIVE BLUE

TO A-BOARD (A21) LR2

TO A-BOARD (A21) LG1

TO A-BOARD (A21) LB2

TO D-BOARD (D5) LG2

LR1 LR2 LR5 LR20

LG1 LG2 LG3 LG4 LG13 LG20

LB1 LB2 LB5 LB20

Q354 B1BAAN000025

Q353 2SC3942000LB

Q355 B1BCAN000004

Q356 B1BCAN000004

Q3351 2SB1030AWA

Q374 B1BAAN000025

Q373 2SC3942000LB

Q375 B1BCAN000004

Q376 B1BCAN000004

Q3361 2SB1030AWA

Q394 B1BAAN000025

Q393 2SC3942000LB

Q395 B1BCAN000004

Q396 B1BCAN000004

Q3371 2SB1030AWA

CRT (RED) P16LBG03RJA

CRT (GREEN) P16LBG03HKA

CRT (BLUE) P16LBG03BMB

JK351 K3B10CA00006

JK371 K3B10CA00006

JK391 K3B10CA00006

FOCUS (TO FBT)

EHT

FOCUS PACK G2

1kV

12V

220V

210V

M-BOARD TNPA2315

R1043 6.8k
R1044 12k
R1045 22k
R1046 68k
S1003 EVQ23405R TV/AV
S1004 EVQ23405R +
S1005 EVQ23405R -
S1006 EVQ23405R FUNCTION
S1007 EVQ23405R STR

Q2361 B1AACF000052 2SC3311A0A
R2370 100
R2397 1k
C2385 0.01
D2361 MTZJT-775.6B
C2292 6.3V 2200
R2359 10k
R2290 5.6k
C2356 0.1
R2291 10k
R2292 2.2k
C2351 16V 470
C2349 1
R2293 2.2k
C2291
R2361
R2362 10k
R2294
R2296 5.6k
R2295 10k
R2363 10k
C2290 50V 4.7
C2354 50V 4.7
C2359 50V 10

IC2304
AN7108
SUB HP AMP

C2293 35V 47
R2380 2.2k
C2296 16V 100
C2294 50V 220
C2355 1
C2295 50V 220
C2297 4700p
C2382 4700p
R2381 2.2k
C2379 16V 100
C2381 50V 1
R2333 47k
R2297 10k
R2392 10k

REMOCON SENSOR
RM1001 PNA4601M04TV
C1054 100p
R1083 100
C1043 100p
R1042 JW
R1084 100
D1012 MAZ40560MF
D1013 MAZ40560MF
C1040 0.022
C1041 50V 47
C1014 16V 100
R1081 3.3k
Q1003 2SC3311A0A B1AACF000052
R1085 220
R1082 10k
D1011 LN6201RFC
STAND BY LED
L1052 EXCELSA35 J0JYA0000010

TO A-BOARD (A26)
A26 M11
GND3
SET 5V
RMCN
STBY 5V
LED

JK3102 TJB4G636
SUB
MAIN
JSM24
C3107 560p
C3109 560p
L2527 EXCELSA35 J0JYA0000010
L2278 EXCELSA35 J0JYA0000010
R3285 JW
R3284 JW
R3116 10k
C3104 0.056
C3103 0.056
C3102 0.056
C3101 0.056
L2526 6.8
L2525 6.8
L2524 6.8
L2523 6.8
L3114
L3113
L3112
L3111

TO P-BOARD (P2)
M1
ESB92811B S840
POWER SW
COLD
HOT

M13
SUB HP VOL
I2C G
GND
VDD
SUB HP R
GND HP
SUB HP L
TO A-BOARD (A8)

M12
S1 (AV3)
CV (AV3)
GND (AV3)
V/Y (AV3)
GND (AV3)
R (AV3)
GND (AV3)
L (AV3)
KEY SCAN
R HP
GND HP
L HP
TO A-BOARD (A25)

P-BOARD TNPA2316AJ (TX-47P500HM)
TNPA2316AK (TX-47P500HQ/HZ)
TNPA2316AL (TX-47P500X)

TO D-BOARD (D40)
TO M-BOARD (M1)
TO AC MAIN-SW
FROM AC MAIN-SW
HOT
COLD
TO TUNNER GND
P4
P40
P2
L874 EXCELSA35T
L880 EXCELSA35T
C874 2200p
C807 3300p
C809 3300p
L873 TX-47P500X:ELF24V030A TX-47P500HM/HQ/HZ:ELF24V018A
L872 TX-47P500X:ELF24V032B TX-47P500HM/HQ/HZ:ELF24V019A
L870 TX-47P500X:ELF24V030A TX-47P500HM/HQ/HZ:ELF24V018A
C806 0.22 AC250V
C805 0.22 AC250V
C878 0.22 AC250V
TX-47P500X ONLY
D875 ERZV14D511T1
R870 3.3M 1/2W
F801 K5D502BL0003
BROWN
BLUE
P5
TO AC CORD
R6704 5.6 2W
D6715 2kV 680p
D6712 B0EAKT000023
D6717 B0EAKT000023
C6731 680p 2kV
D6718 B0EAKT000023
C6732 680p 2kV
D893 B0EAKT000023
C893 2kV 680p
D876 ERZV14D511T1
C883 450V 10
R883 100k 1W
C888 3900p 1kV
C6718 2kV 22p
L6719 EXCELDR25V
L6720 EXCELDR25V
D6705 EG01C
370V
IC881 MIP2810001TV
BP FB S NC D
64.4 53.3 0 18.6 67.0
C884 0.1
C885 100p
D6710 MAZ20820A0LS
C886 27p 2kV
R882 100
D884 B3PAA0000153 ON5171R
T881 TLPA078 ETS19AB186AG TX-47P500X
T881 ETS19AB186AG TX-47P500HM/HQ/HZ
C890 1000p 500V
D890 EU02
C891 16V 470
L883 180
C889 16V 2200
6.5V
J8P11
TO D-BOARD (D60)
P60
6.5V
GND
RELAY
18V
C895 50V 10
C894 35V 47
R891 1.2k 1/2W
R890 1k 1/2W
D886 MA2C165001VT
D885 MAZ40560HF
RL802 K6B1AGA00043
R801 4.7 10W
RL801 K6B1ADA00010
D871 B0AAGM000006
Q852 2SC3311A0A B1AACF000052
0.1
0.7
R854 220
D801 B0EBNT000002 D4SB80Z
C802 500V 4700p
C804 500V 4700p
C803 500V 4700p
TUC15673 HEAT SINK
J8P13
P50
TO D-BOARD (D50)
HOT
LIVE CIRCUIT
TX-47P500X ONLY
IC802 STR83145LF55
TUC25647 HEAT SINK
SW DELAY T1 T2 GATE COMMON
D822 B0EAKT000023
D823 B0EAKT000023
C863 4700p 1kV
C864 4700p 1kV
C865 4.7
C866 4.7
C867 0.047
C868 0.047 250V
R861 47 1W
TO D-BOARD (D70)
P70
18V
18V
H-DRIVE
H-DRIVE
H-OUT
H-OUT
D500 D1NL40V70
R503 68 5W
C505 50V 470
C502 35V 100
C503 0.1
R504 1k 1/2W
T501 ETH19K135AY
L500 JW
D501 D1NL40V70
C504 500V 0.001
14.7
2.0
Q501 B1CEML000001
R502 68
D502 MAZ41500MF
R501 100k

SR-BOARD TNPA2470

SG-BOARD TNPA2469

SB-BOARD TNPA2471

TO D-BOARD (D5)

TO A-BOARD (A21)

SR1 SG1 SG2 SG3 SG4 SB1

140V 18V GND

Q2941 2SC1318AWA
Q2942 2SA07200WA
Q2943 2SC1318AWA
Q2944 2SC1318AWA
Q2945 2SA07200WA
Q2946 2SA0720ARA
Q2947 2SA1536ALB
Q2948 2SC3944AW0LB
Q2949 2SC1318ARA

Q2901 B1AACF000052 2SC3311A0A
Q2902 B1AACF000052 2SC3311A0A
Q2903 B1AACF000052 2SC3311A0A
Q2904 2SC1318AWA
Q2905 2SC1318AWA
Q2911 2SC1318AWA
Q2912 2SA07200WA
Q2913 2SC1318AWA
Q2914 2SC1318AWA
Q2915 2SA07200WA
Q2916 2SA0720ARA
Q2917 2SA1536ALB
Q2918 2SC3944AW0LB
Q2919 2SC1318ARA

Q2971 2SC1318AWA
Q2972 2SA07200WA
Q2973 2SC1318AWA
Q2974 2SC1318AWA
Q2975 2SA07200WA
Q2976 2SA0720ARA
Q2977 2SA1536ALB
Q2978 2SC3944AW0LB
Q2979 2SC1318ARA

D2942 D2943 D2972 D2973 MA2218800E B0ZAZ0000054

L2941 L2942 L2943 L2944 L2971 L2972 L2973 L2974 EXCEL8A35T

J82941 J82901 J82971

YMコイル TLHX017

D5 A21 VM DIFF

⚠ U-BOARD TXN/U10GFV

SERVICE MODE

5V DET

TO A-BOARD (A1102)

TO A-BOARD (A1101)

A1102 U2

A1101 U1

IC1101
SDA6000
MICOM
2.25-2.75V
3.0-3.6V

ON CHIP DEBUGGER

UnfversaiAsynchronousReceiverTransmitter

FREE RUN

SDRAM CONTROL

ROM CONTROL

DATA

ADDRESS

IC1102
C3FBKD000104
FLASH
TVRJ652

IC1111
C0JBAE000093
OR GATE

IC1110
PST9128NR
RESET

IC1106
C3ABMG000074
C3ABMG000086
16M SDRAM
C3ABMG000064
TVSA0501

Q1125
B1ABC0000004
2SD0601AQL

Q1123
B1ABC0000004
2SD0601AQL

A30 4-PIN
A30 3-PIN
A30 2-PIN

A-BOUT

INTER SP MUTE

LED

RST IN

RELAY

BEAM-SW

DAF-SW

DEGAUSS

CKE

A	B	C	D	E	F

1	2	3	4	5	6	7	8	9

14 Schematic Diagram

14.1. Schematic Diagram Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

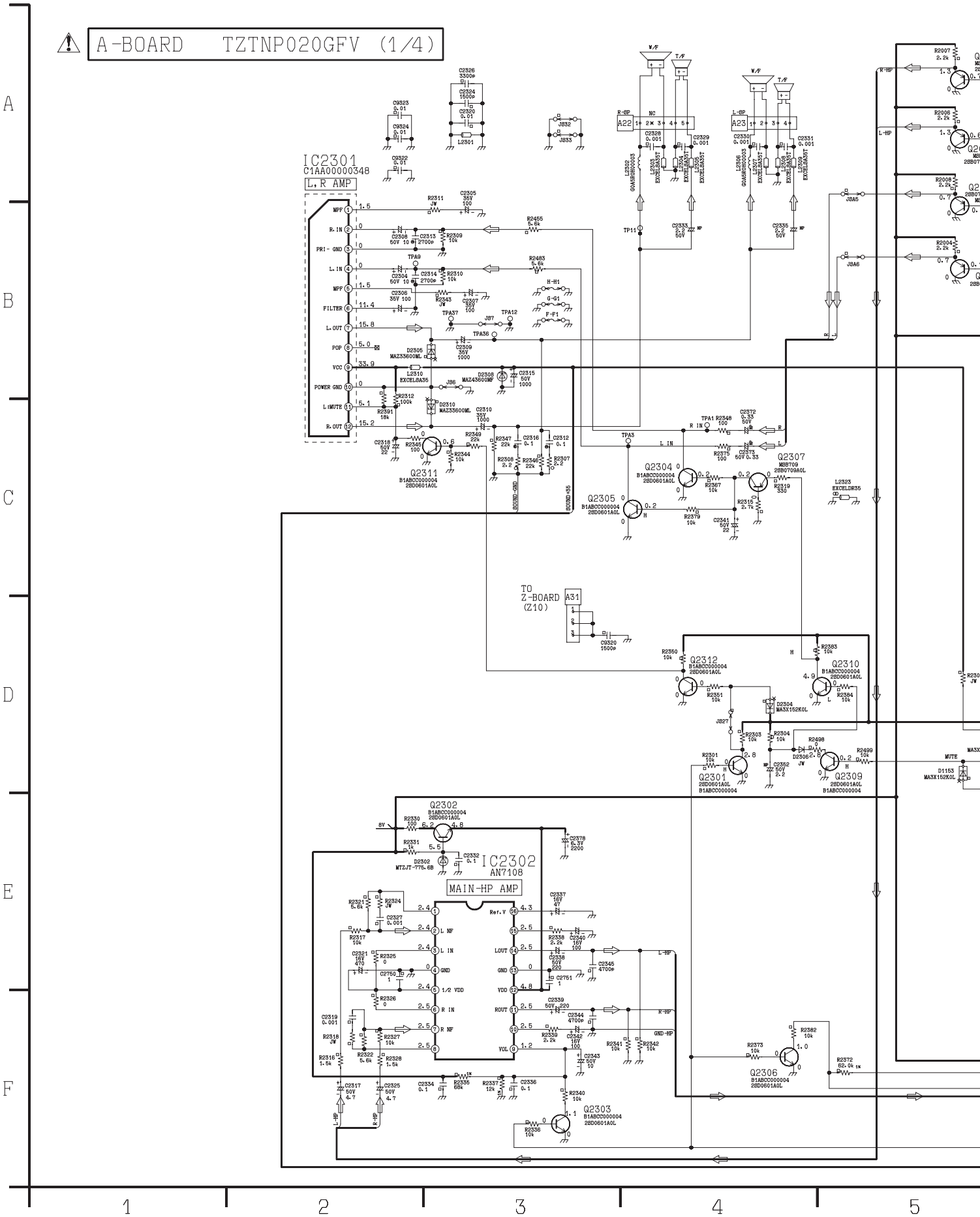
Notes:

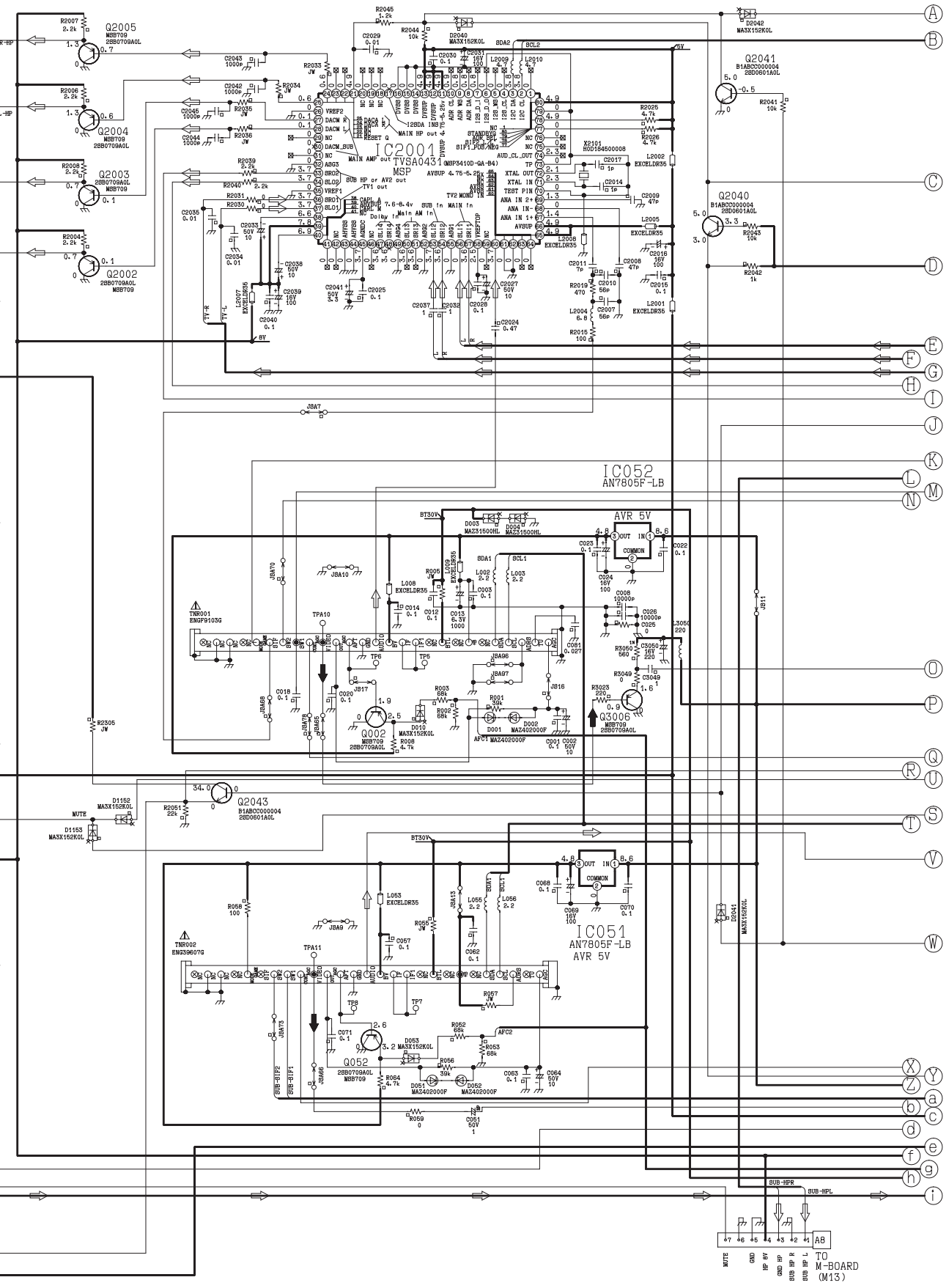
1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
   ◯ : Nonflammable ⊠ : Metal Oxide
   △ : Solid ◎ : Metal Film
   ⊘ : Wire Wound ⊗ : Fuse:
2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is μF, unless otherwise noted.
   ⊗ : Temperature Compensation : Electrolytic
   Ⓜ : Polyester NP : Bipolar
   ⓜ : Metalized Polyester Ⓣ : Dipped Tantalum
   ⊠ : Polypropylene Ⓩ : Z-Type
3. Coil
   Unit of inductance is μF, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ⏚ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source .....
   TX-43/51P250HM/HQ/HZ,TC-51P250H : AC 220V-240V, 50/60Hz
   TX-43/51P250X : AC 110V-240V, 50/60Hz
   Receiving Signal ..... Colour Bar signal (RF)
   All customer's controls ..... Maximum positions
7. Number in red circle indicates waveform nember.
   (See waveform pattern table.)
8. When arrow mark (↗) is found, connection is easily found from the direction of arrow
9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

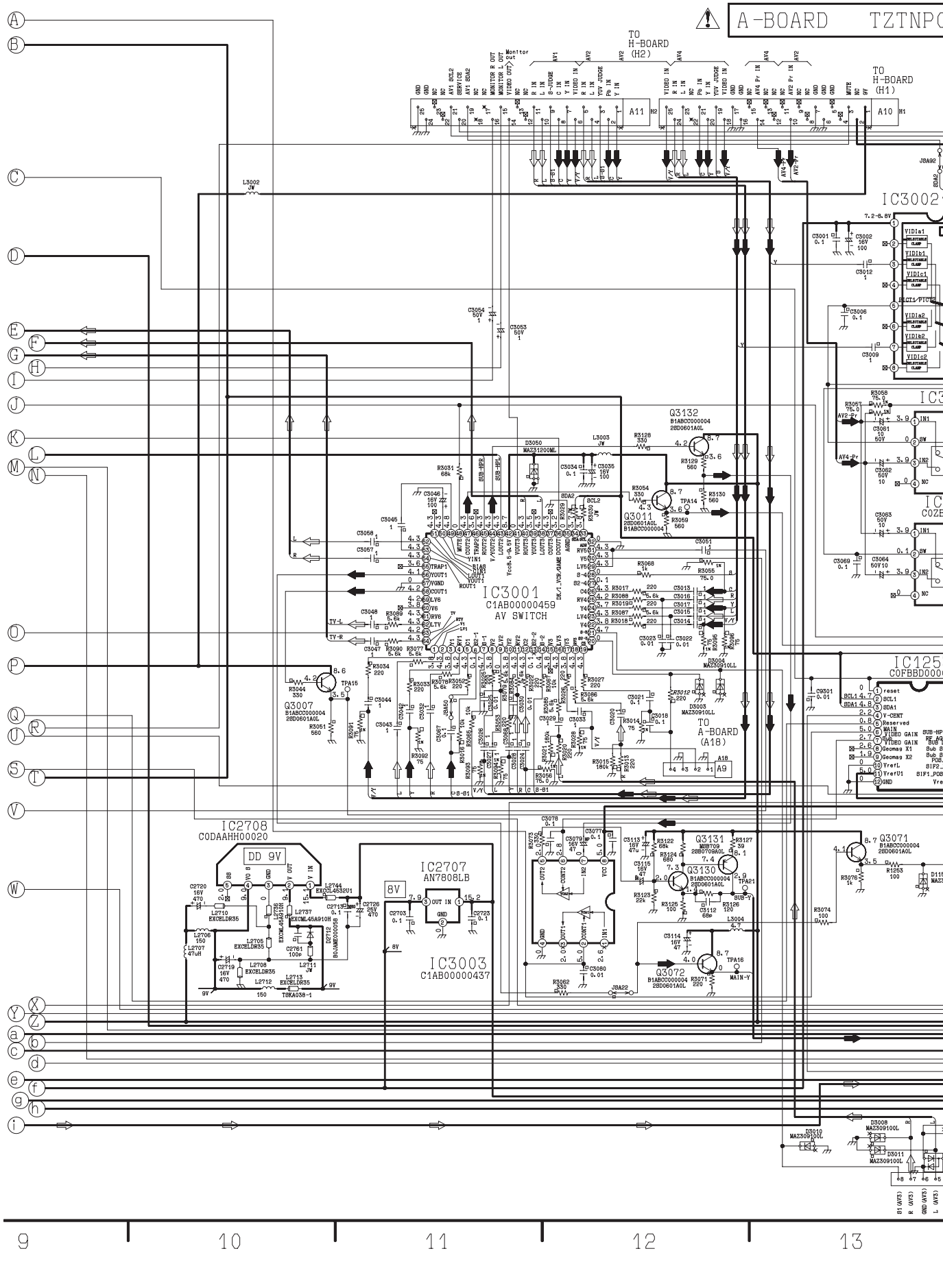
1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150- MA162 (Replacement part)

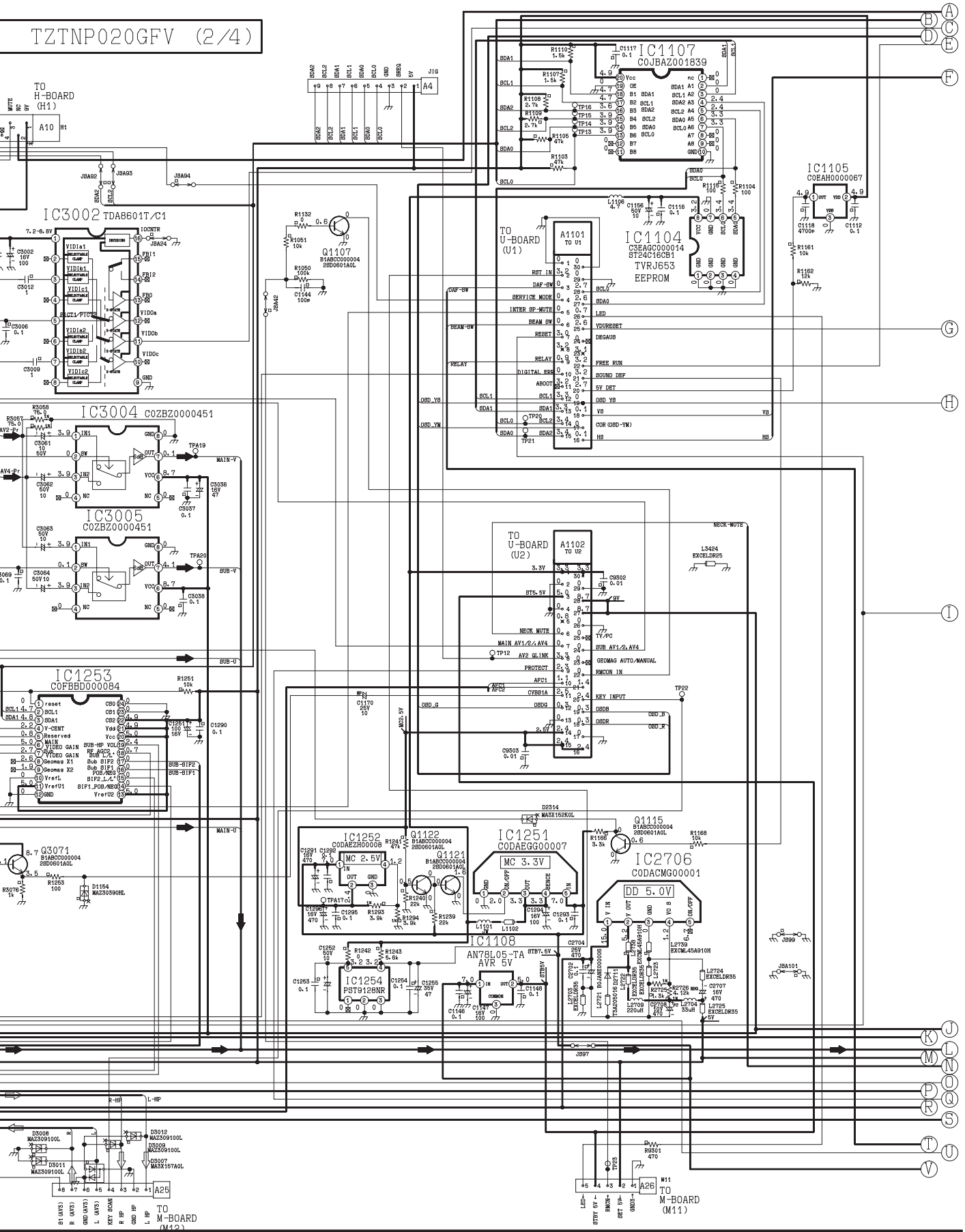
14.2. A-Board (1 of 4) Schematic Diagram



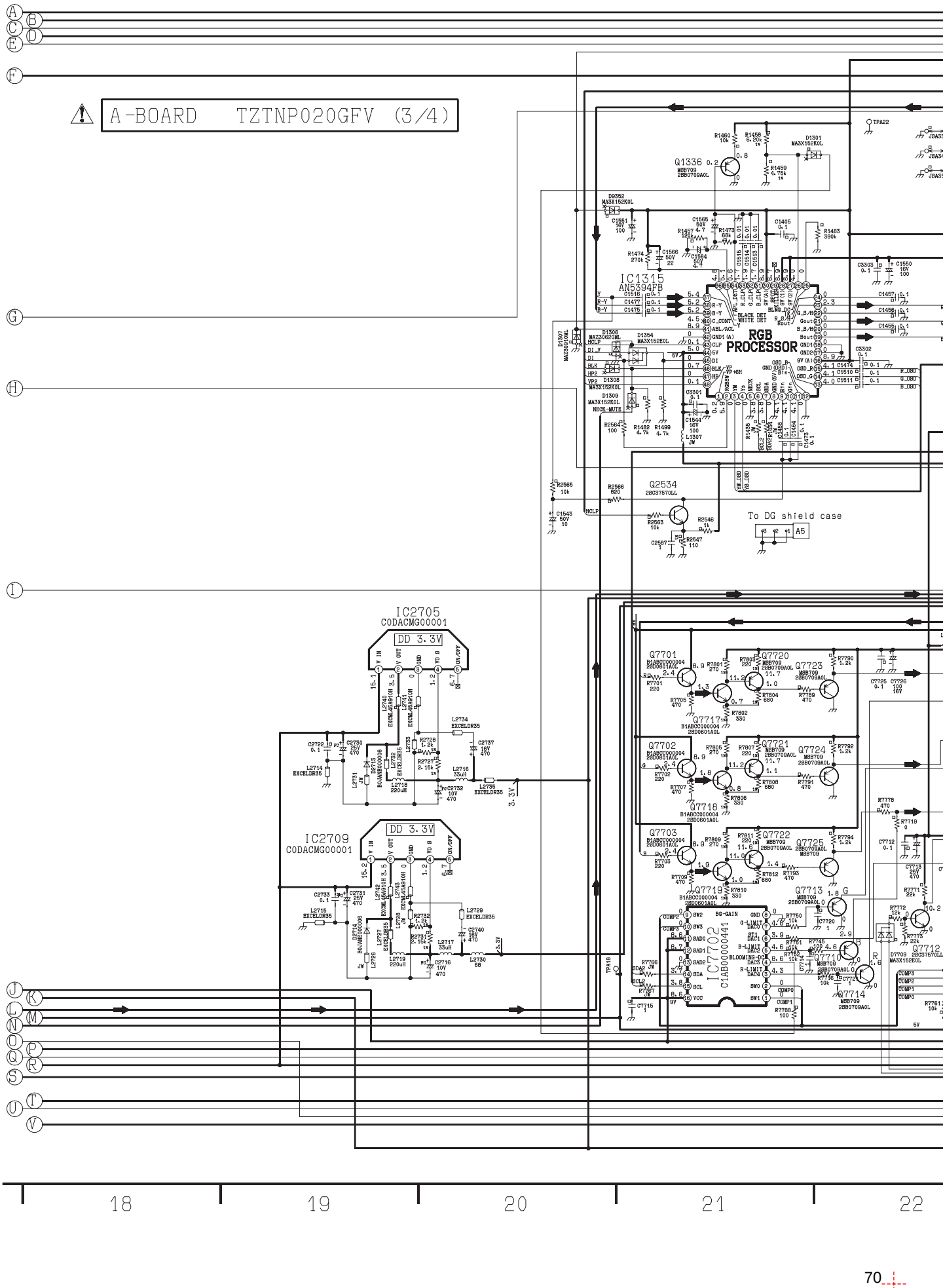

IC2001
TVSA0431
MSP
IC052
AN7805F-LB
AVR 5V
IC051
AN7805F-LB
AVR 5V
Q2005
Q2004
Q2003
Q2002
Q2041
Q2040
Q2043
Q002
Q052
Q3006
TO
M-BOARD
(M13)

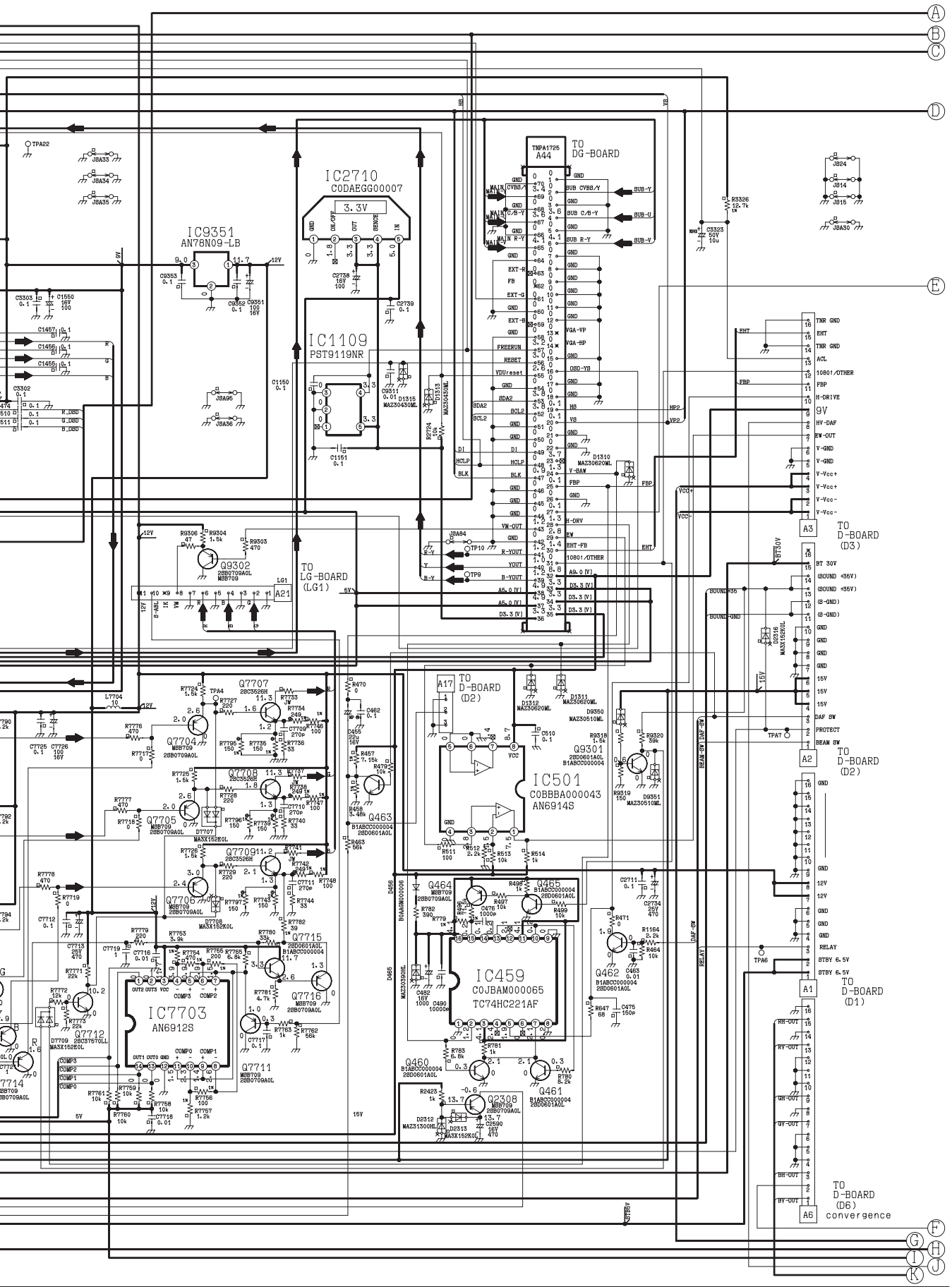
14.3. A-Board (2 of 4) Schematic Diagram



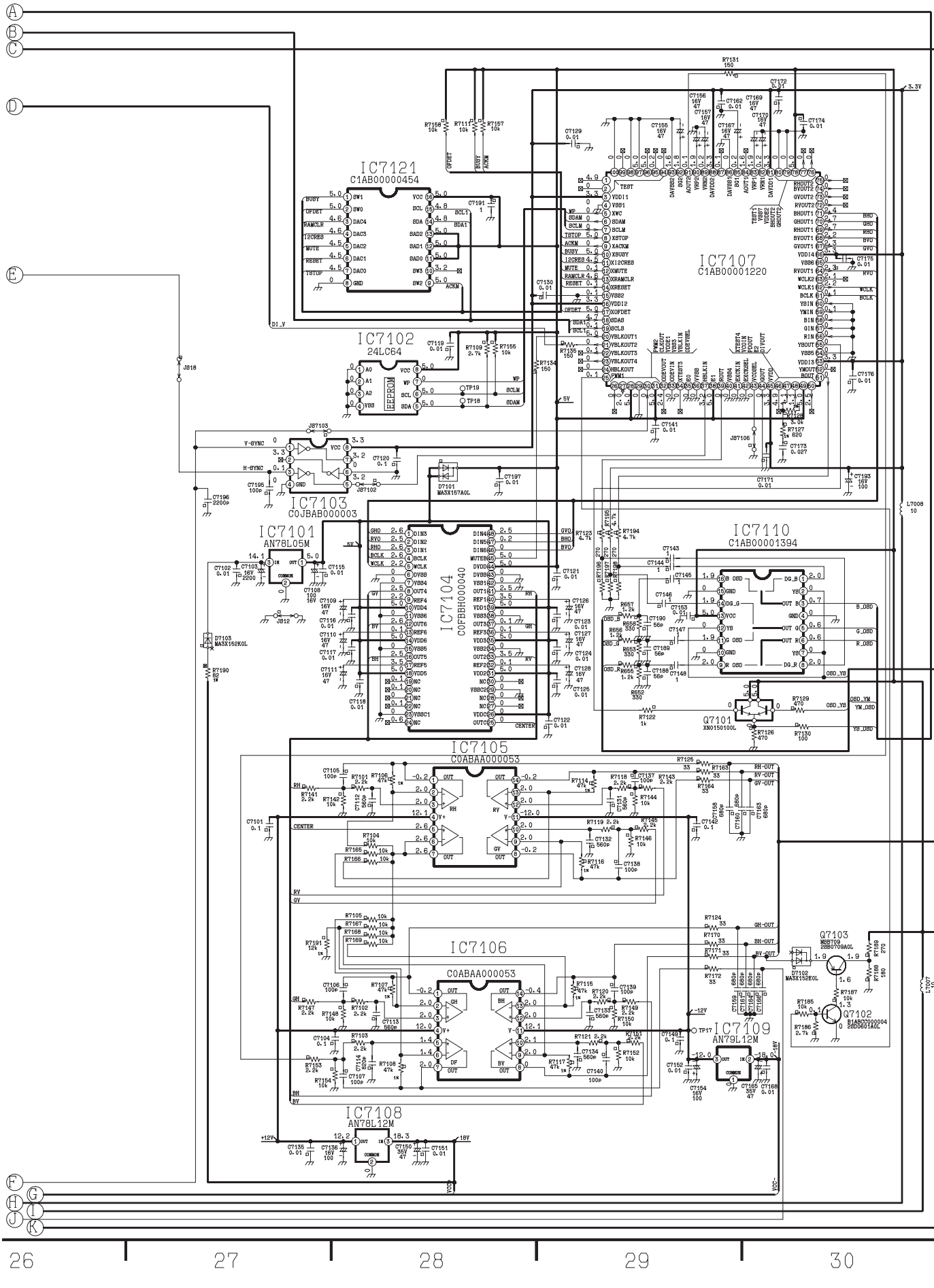

TZTNP020GFV (2/4)
IC3002 TDA8601T/C1
IC3004 C0ZBZ0000451
IC3005 C0ZBZ0000451
IC1253 C0FBBD000084
IC1107 C0UBAZ001839
IC1104 C3EAGC000014 ST24C16CB1 TVRJ653 EEPROM
IC1105 C0EAH0000067
IC1252 C0DAEZH00008
IC1251 C0DAEGG00007
IC1108 AN78L05-TA AVR 5V
IC2706 C0DACMG00001
IC1254 PST9126NR
Q1107 B1ABCD000004 2SD601AQL
Q1122 B1ABCD000004 2SD601AQL
Q1121 B1ABCD000004 2SD601AQL
Q1115 B1ABCD000004 2SD601AQL
Q3071 B1ABCD000004 2SD601AQL
TO H-BOARD (H1)
TO U-BOARD (U1)
TO U-BOARD (U2)
TO M-BOARD (M12)
TO M-BOARD (M11)
MAIN-V
SUB-V
SUB-U
MAIN-U
SUB-BIP2
SUB-BIP1
NECK-MUTE
R-HP
L-HP
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
13
14
15
16
17

14.4. A-Board (3 of 4) Schematic Diagram




IC2710
C0DAEGG00007
3.3V
IC9351
AN76N09-LB
IC1109
PST9119NR
TNPA1726
A44
TO
DG-BOARD
Q9302
2SB0709AGL
MSB709
TO
LG-BOARD
(LG1)
IC501
C0BBBA000043
AN6914S
Q9301
2SD0601AGL
B1ABC0000004
IC459
C0JBAM000065
TC74HC221AF
Q460
Q461
Q462
Q463
Q464
Q465
IC7703
AN6912S
Q7704
Q7705
Q7706
Q7707
Q7708
Q770911.2
Q7711
Q7712
Q7714
Q7715
Q7716
Q2308
A17
TO
D-BOARD
(D2)
A3
TO
D-BOARD
(D3)
A2
TO
D-BOARD
(D2)
A1
TO
D-BOARD
(D1)
A6
TO
D-BOARD
(D6)
convergence
22
23
24
25
26

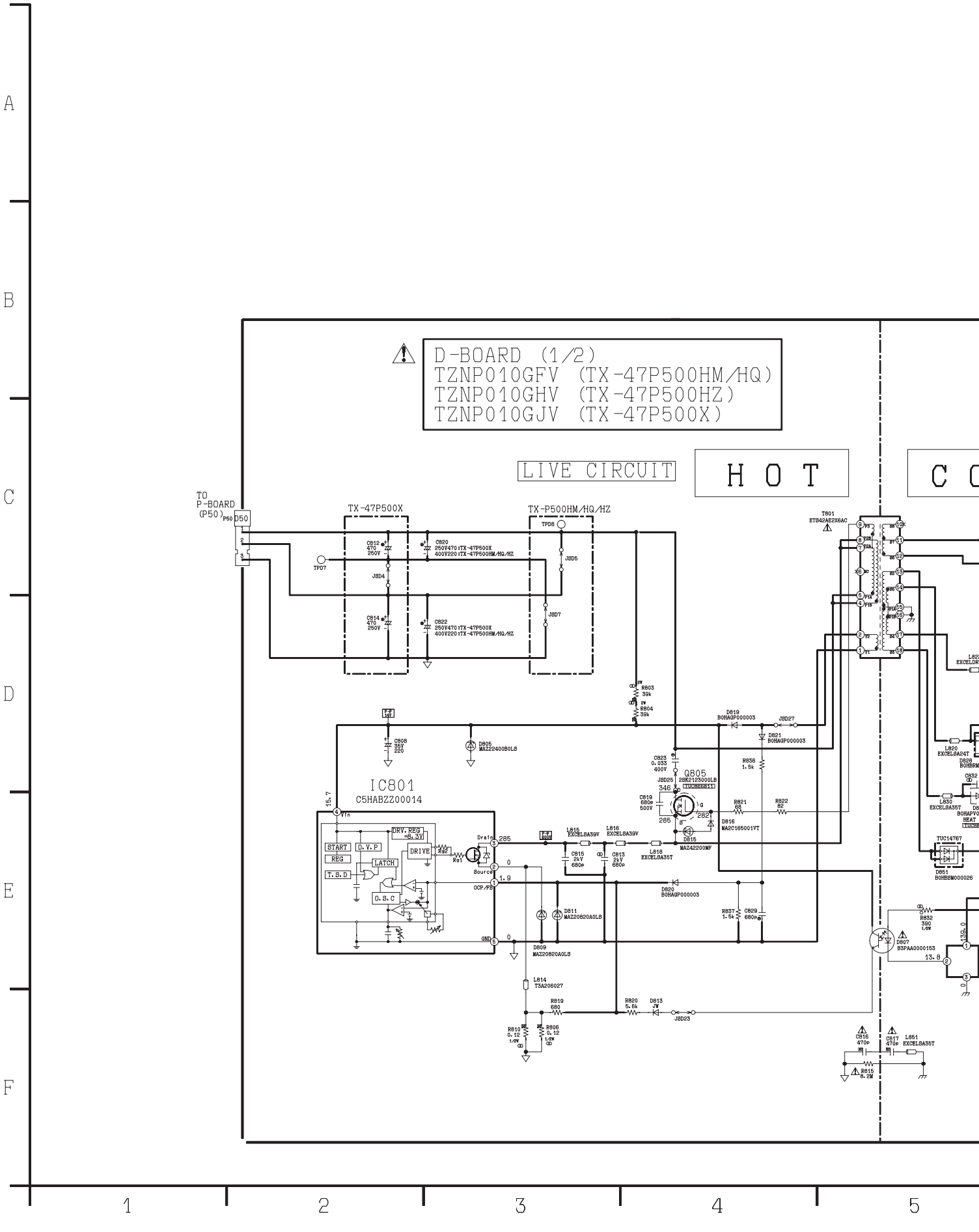
14.5. A-Board (4 of 4) Schematic Diagram

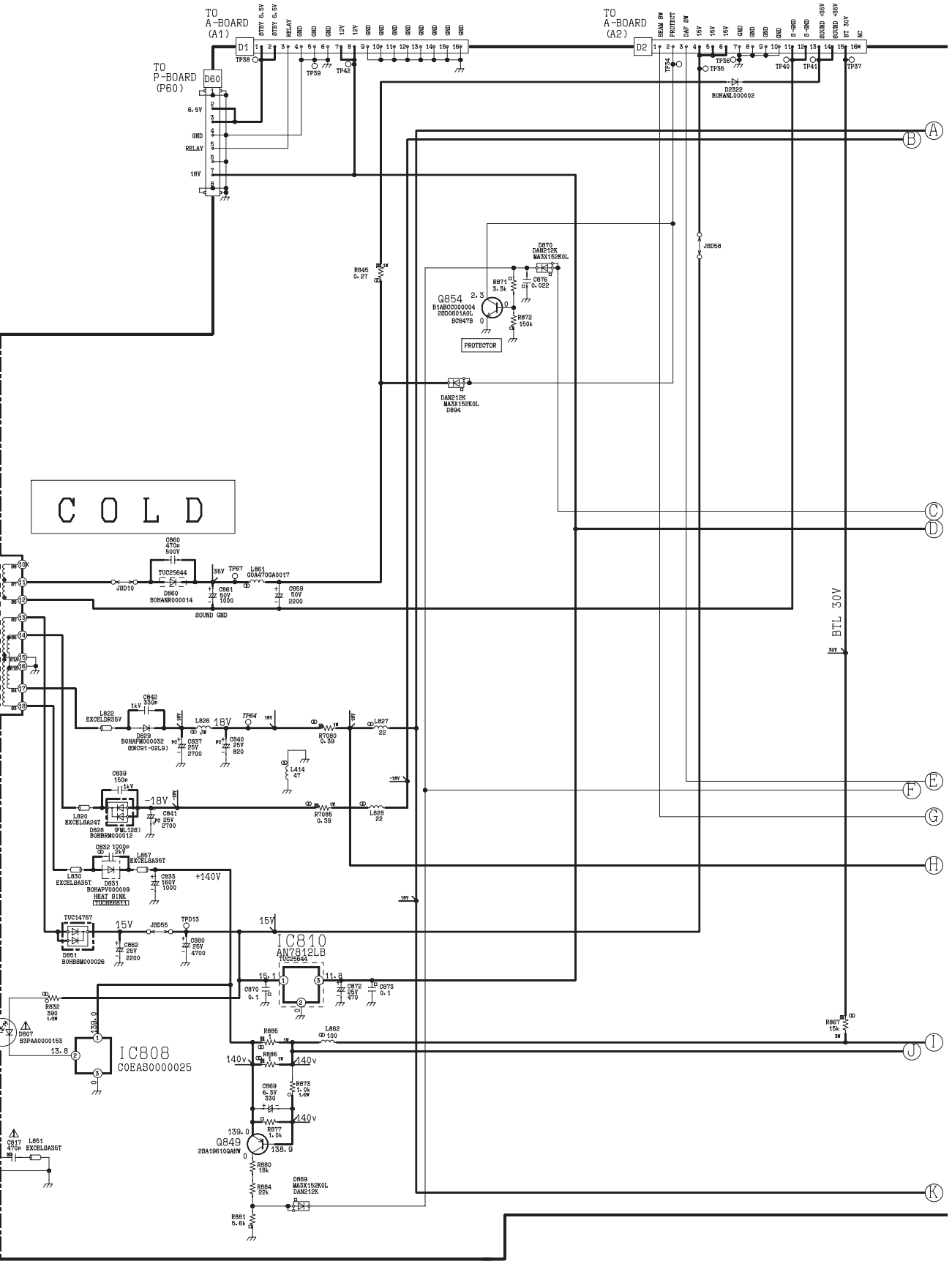


⚠ A-BOARD TZTNP020GFV (4/4)

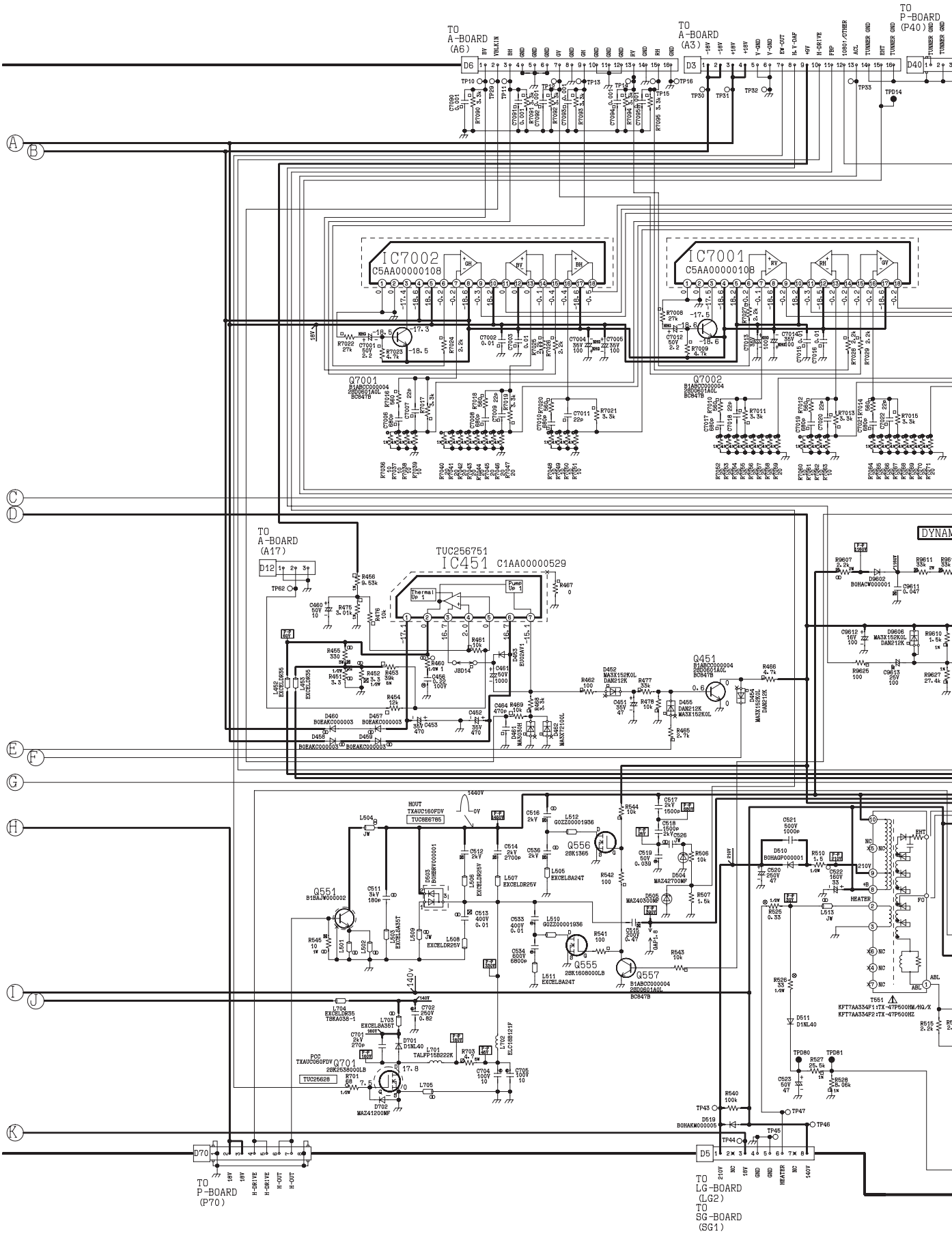


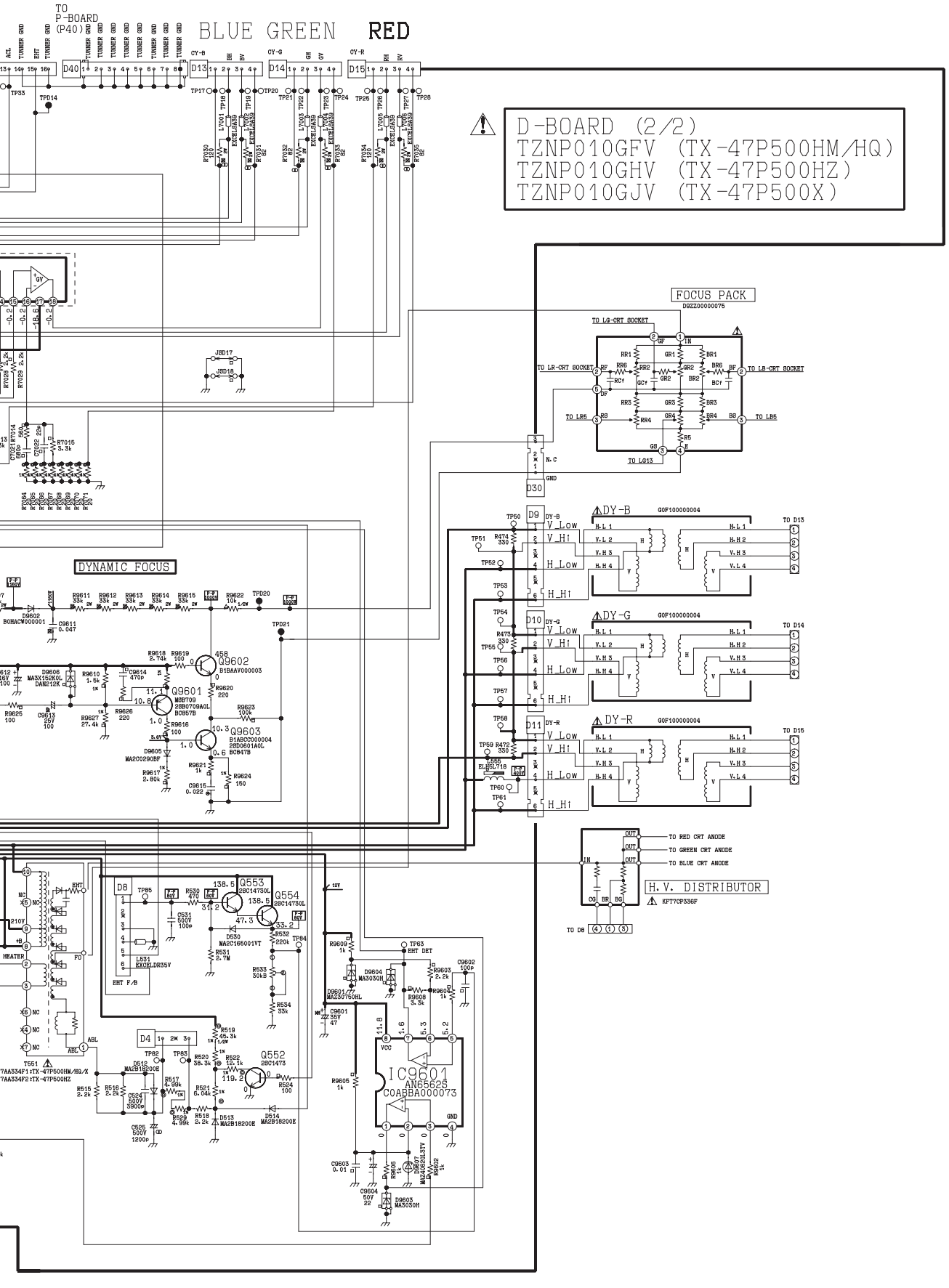
14.6. D-Board (1 of 2) Schematic Diagram



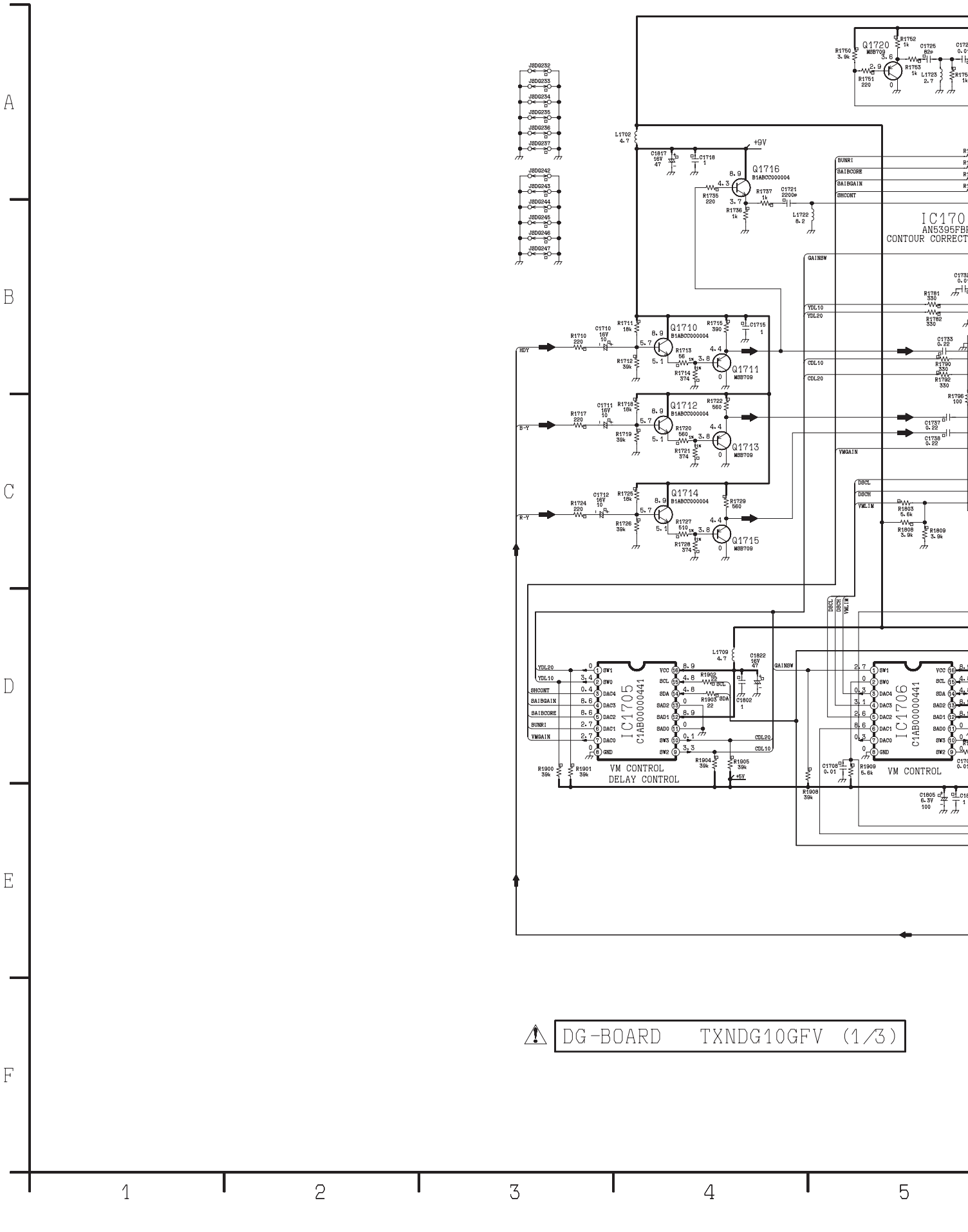

TO A-BOARD (A1)
TO A-BOARD (A2)
TO P-BOARD (P60)
D1
D2
D60
STBY 6.5V
RELAY
GND
12V
BEAM SW
PROTECT
DAF SW
15V
B-GND
BOUND +35V
BT 30V
NC
TP38
TP39
TP42
TP34
TP35
TP36
TP40
TP41
TP37
D2322
B0HANL000002
J8D58
R845
0.27
D870
DAN212K
MA3X152K0L
C876
0.022
R871
3.3k
Q854
B1ABC0000004
2SD0601A0L
BC847B
R872
150k
PROTECTOR
DAN212K
MA3X152K0L
D894
COLD
C860
470p
500V
TUC25644
J8D10
D860
B0HANR000014
C861
50V
1000
C859
50V
2200
SOUND GND
BTL 30V
L822
EXCELDR35V
C842
330p
1kV
D829
B0HAPM000032
(ERC91-02LS)
C837
25V
2700
L826
18V
TP64
C840
25V
820
R7080
0.39
L827
22
L414
47
C839
150p
1kV
-18V
L820
EXCELSA24T
D828
(RM-12S)
B0HBRW000012
C841
25V
2700
R7085
0.39
L828
22
C832
1000p
2kV
L857
EXCELSA35T
L830
EXCELSA35T
D831
B0HAPV000009
HEAT SINK
TUCHEE811
C833
160V
1000
+140V
TUC14767
D851
B0HBSW000026
15V
J8D55
TPD13
C862
25V
2200
C880
25V
4700
IC810
AN7812LB
TUC25644
15.1
11.8
C870
0.1
C872
25V
470
C873
0.1
R832
390
1/2W
D807
B3PAA0000153
13.8
IC808
C0EAS0000025
R885
1k
L862
100
R886
1k
140v
C869
6.3V
330
R873
1.0k
1/2W
R877
1.0k
139.0
Q849
2SA19610QAHW
138.9
R880
18k
R884
22k
D869
MA3X152K0L
DAN212K
R881
5.6k
R867
15k
3W
C817
470p
L851
EXCELSA35T
A
B
C
D
E
F
G
H
I
J
K
5
6
7
8
9

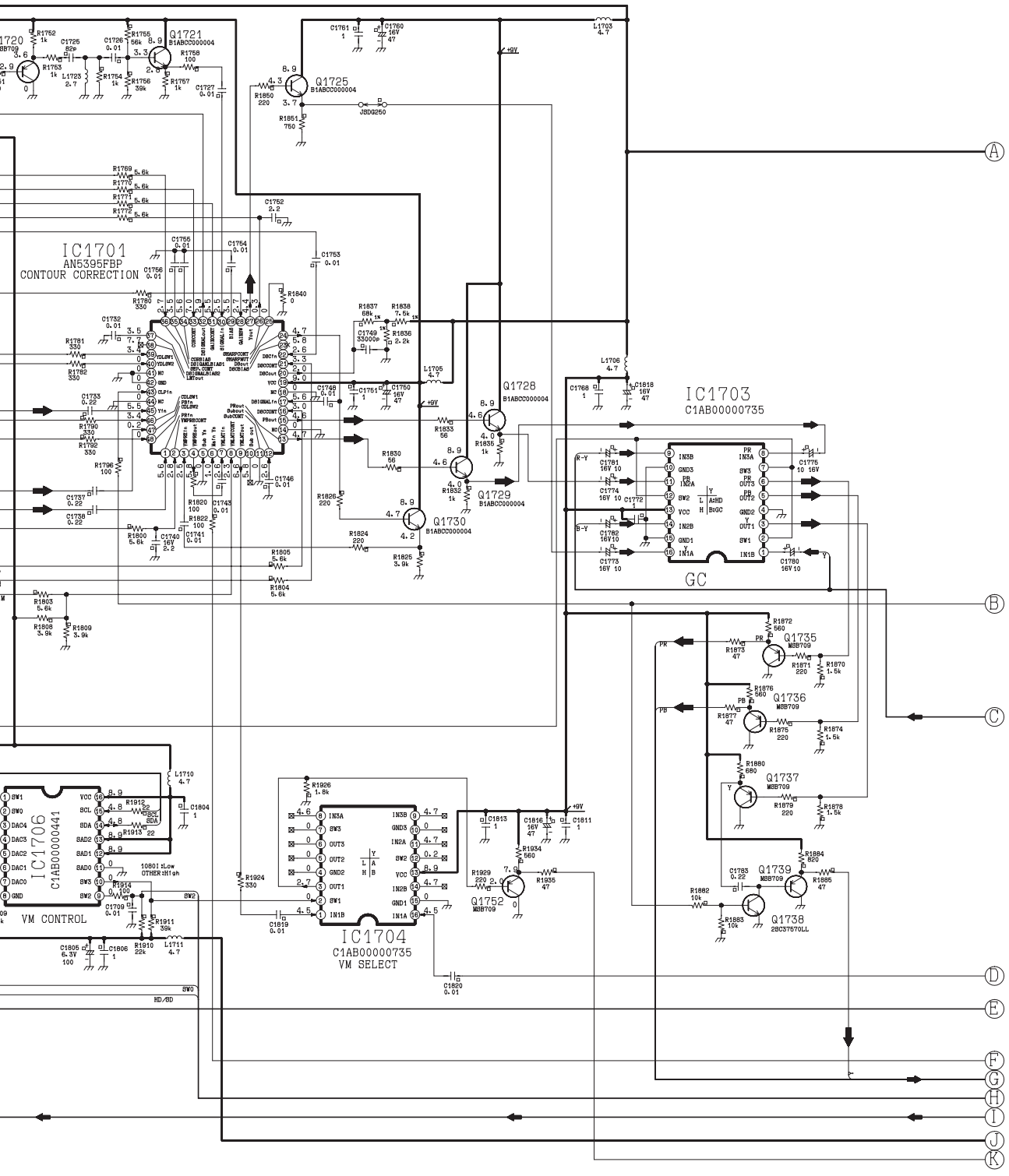
14.7. D-Board (2 of 2) Schematic Diagram




TO
P-BOARD
(P40)
BLUE GREEN RED
D-BOARD (2/2)
TZNP010GFV (TX-47P500HM/HQ)
TZNP010GHV (TX-47P500HZ)
TZNP010GJV (TX-47P500X)
FOCUS PACK
DGZZ00000076
TO LG-CRT SOCKET
TO LR-CRT SOCKET
TO LB-CRT SOCKET
TO LR5
TO LB5
TO LG13
DYNAMIC FOCUS
DY-B
DY-G
DY-R
TO D13
TO D14
TO D15
H.V. DISTRIBUTOR
TO RED CRT ANODE
TO GREEN CRT ANODE
TO BLUE CRT ANODE
TO D8
IC9601
AN65625
C0ABBA000073

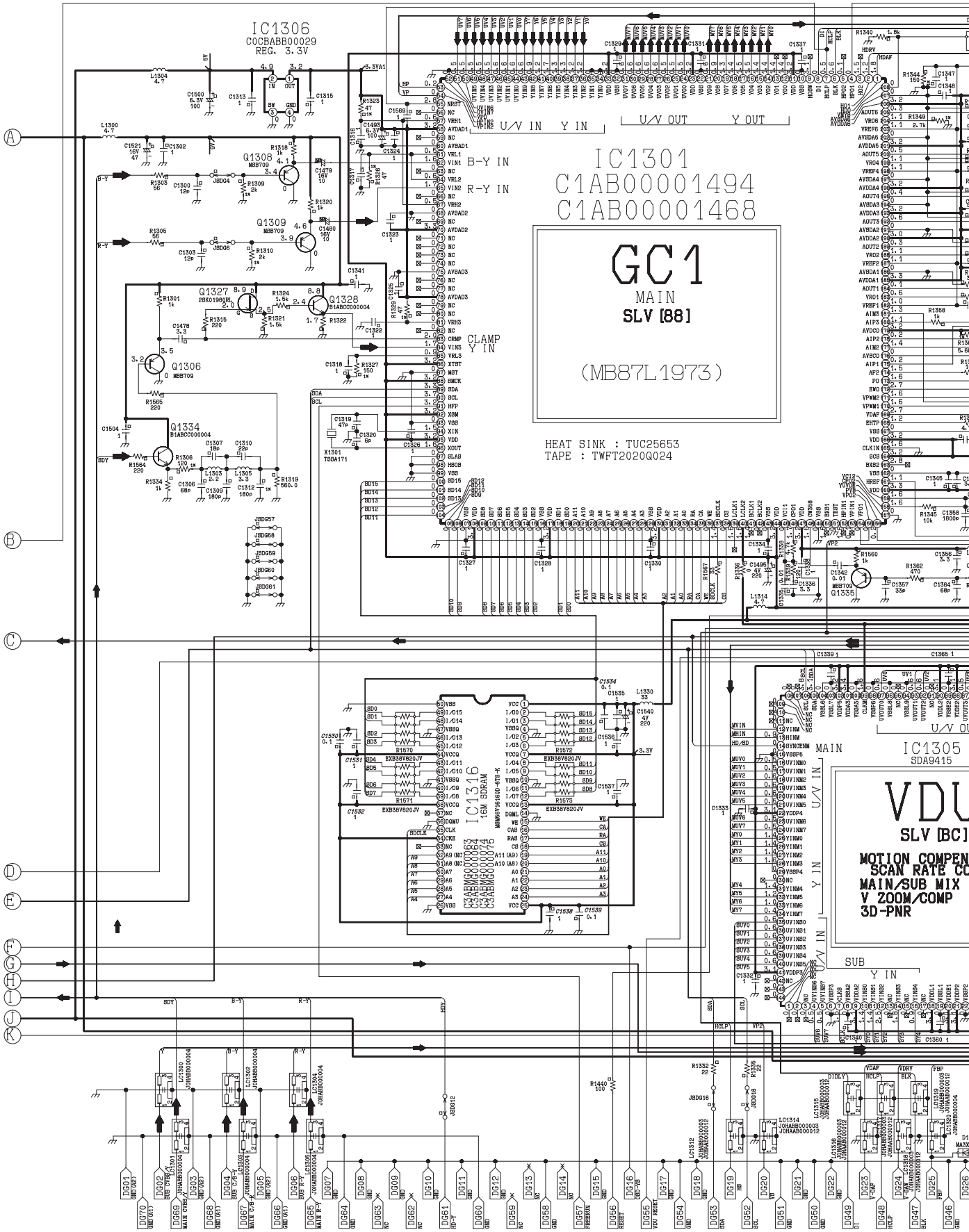
14.8. DG-Board (1 of 3) Schematic Diagram

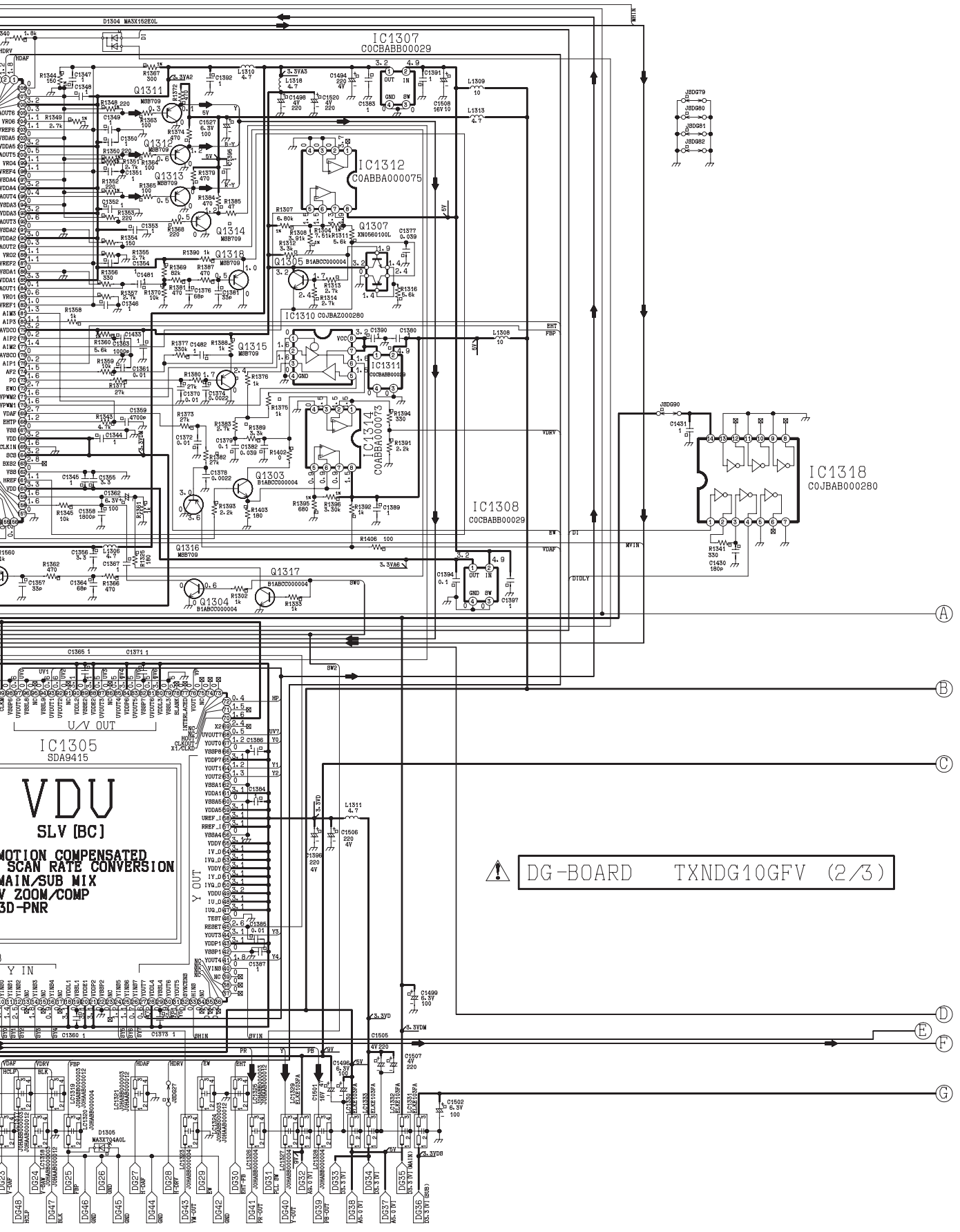



IC1701
AN5395FBP
CONTOUR CORRECTION
IC1703
C1AB00000735
GC
IC1704
C1AB00000735
VM SELECT
IC1706
C1AB0000441
VM CONTROL
Q1725
B1ABC000004
Q1728
B1ABC000004
Q1729
B1ABC000004
Q1730
B1ABC000004
Q1735
MSB709
Q1736
MSB709
Q1737
MSB709
Q1739
MSB709
Q1738
2SC3757OLL
Q1752
MSB709
Q1721
B1ABC000004
JSD0250
+9V
SW0
HD/SD
A
B
C
D
E
F
G
H
I
J
K

5 6 7 8 9

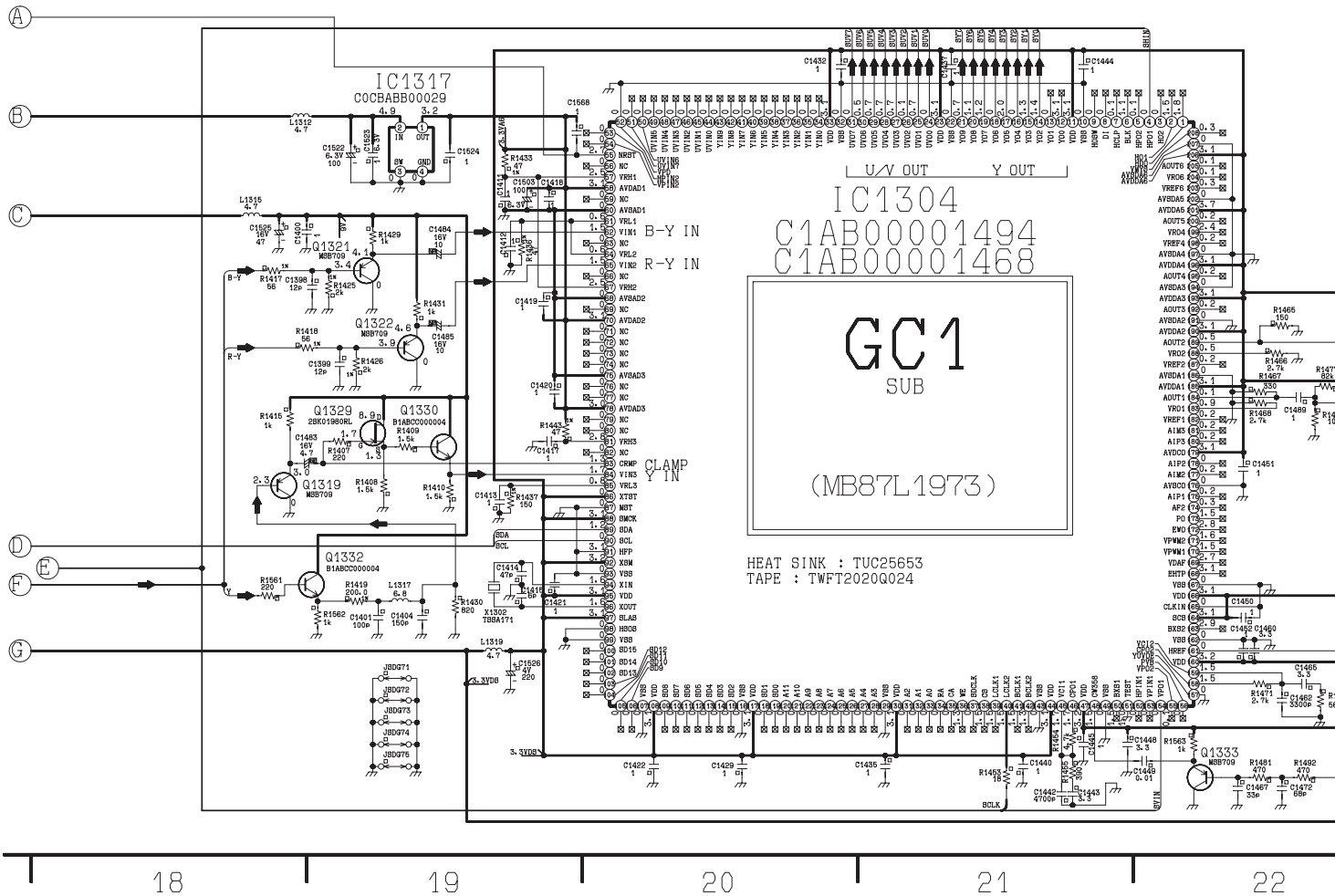
14.9. DG-Board (2 of 3) Schematic Diagram

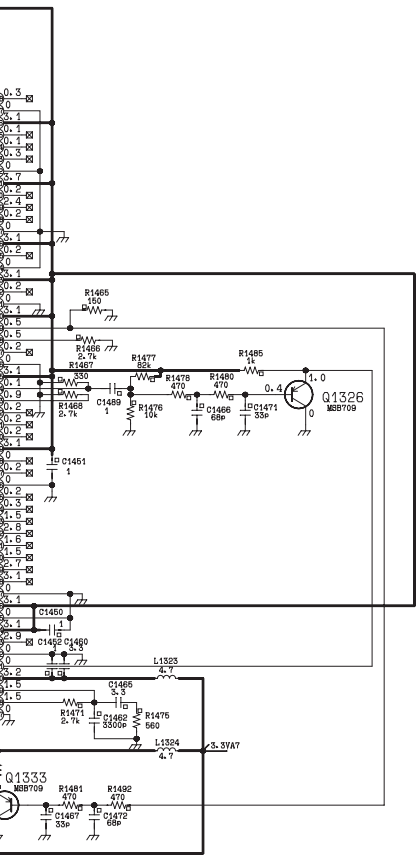



IC1307
C0CBABB00029
IC1312
C0ABBA000075
IC1310 C0JBAZ000280
IC1311
C0CBABB00029
IC1314
C0ABBA000073
IC1308
C0CBABB00029
IC1318
C0JBAB000280
Q1311
Q1312
Q1313
Q1314
Q1318
Q1315
Q1316
Q1317
Q1304
Q1303
Q1305 B1ABCC000004
Q1307 XN0560100L
D1304 MA3X152E0L
D1305 MA3X704A0L
IC1305
SDA9415
U/V OUT
Y OUT
Y IN
VDU
SLV [BC]
MOTION COMPENSATED
SCAN RATE CONVERSION
MAIN/SUB MIX
V ZOOM/COMP
3D-PNR
DG-BOARD TXNDG10GFV (2/3)
A
B
C
D
E
F
G
14
15
16
17

14.10. DG-Board (3 of 3) Schematic Diagram

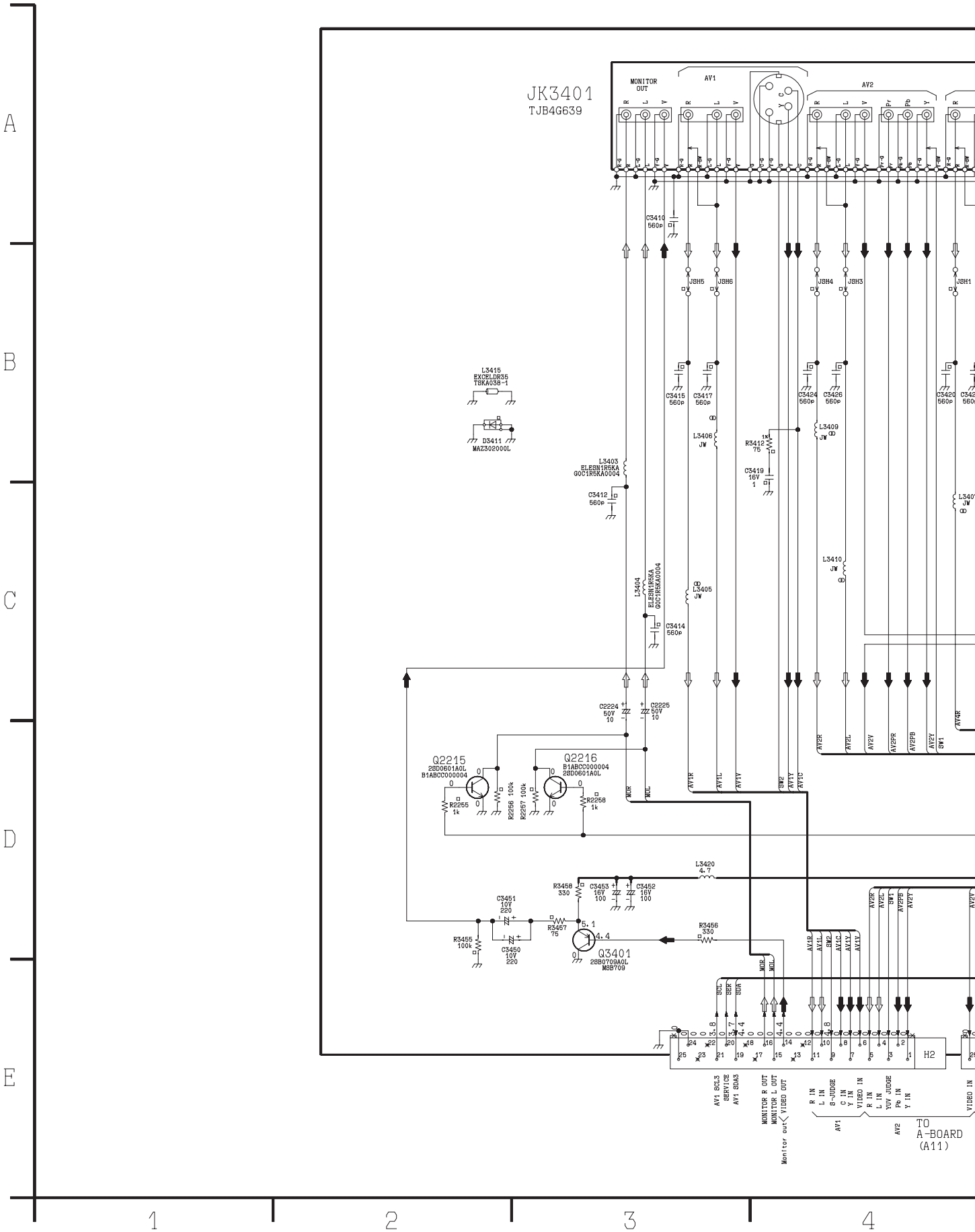


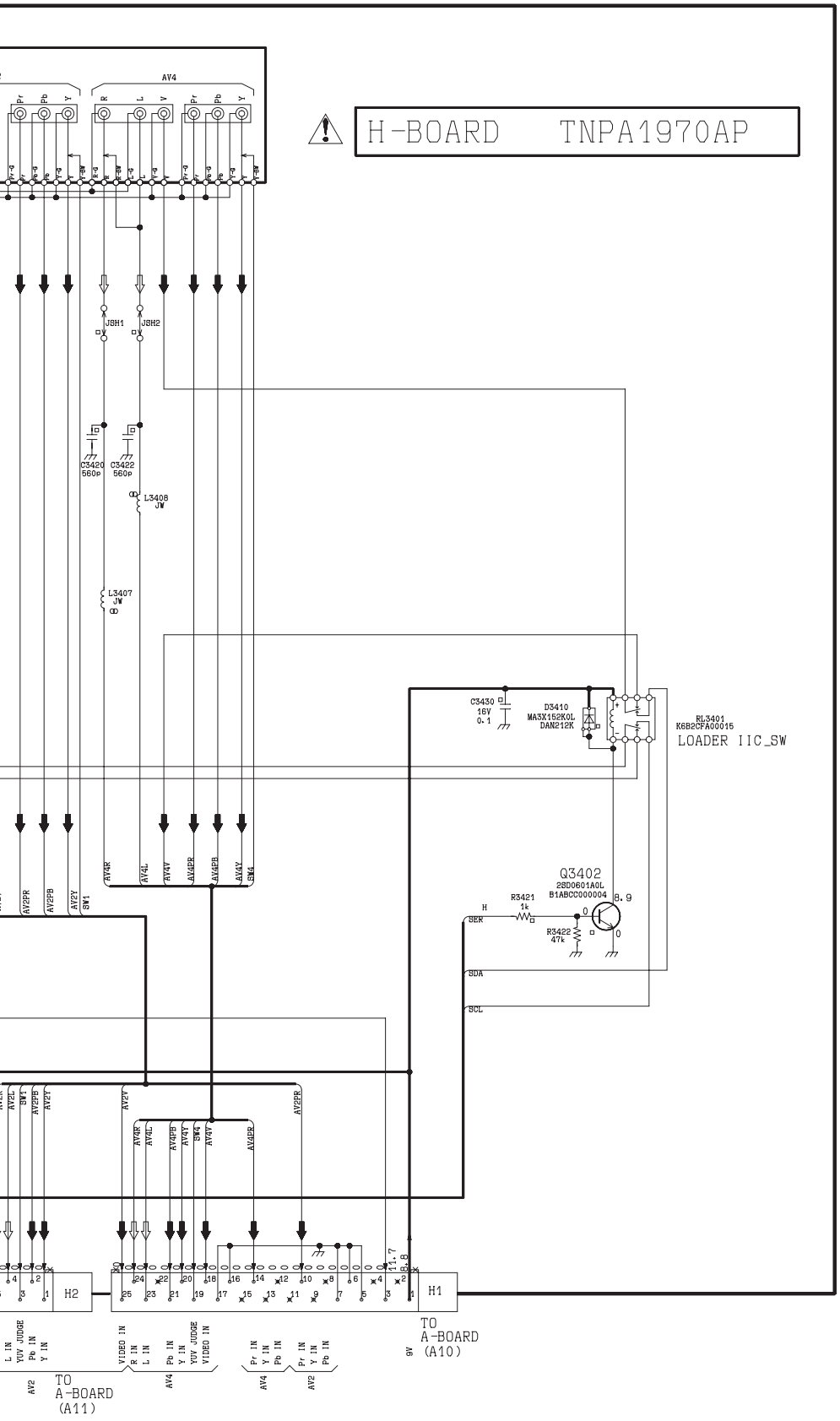



R1465
150
R1466
2.7k
R1467
330
R1477
82k
R1478
470
R1485
1k
R1480
470
1.0
0.4
Q1326
MSB709
0
R1468
2.7k
C1469
1
R1476
10k
C1466
68p
C1471
33p
C1451
1
C1450
1
C1452
C1460
3.3
L1323
4.7
C1465
3.3
R1471
2.7k
C1462
3300p
R1475
560
L1324
4.7
3.3VA7
Q1333
MSB709
R1481
470
R1492
470
C1467
33p
C1472
68p

22 23 24 25 26

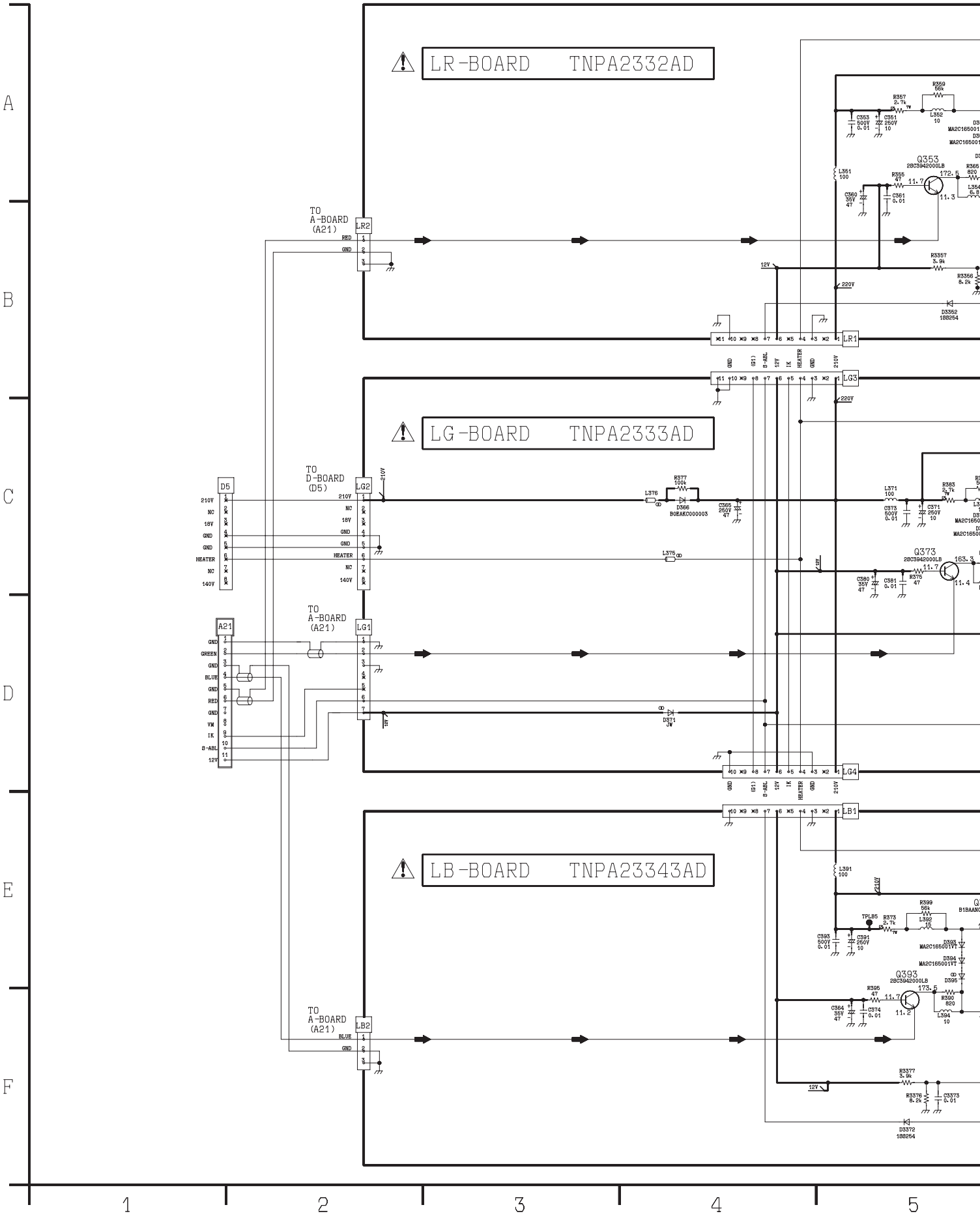
14.11. H-Board Schematic Diagram

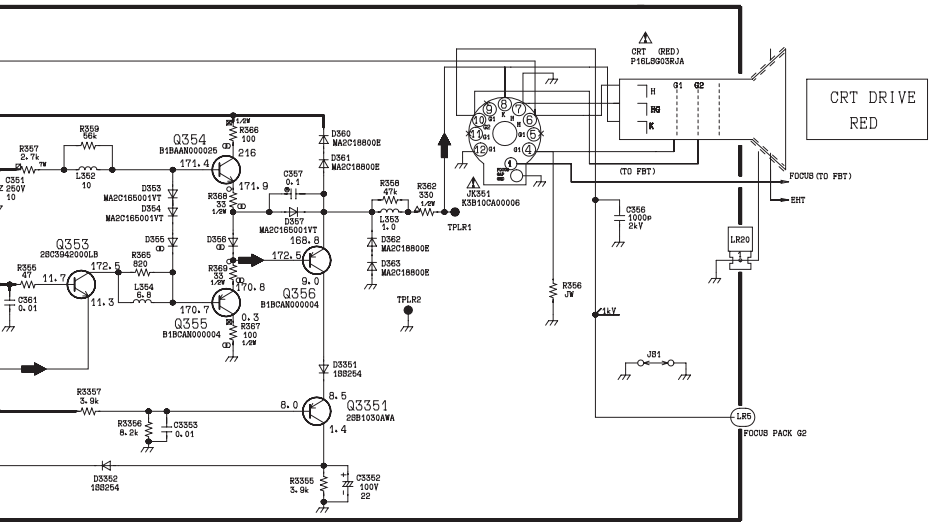


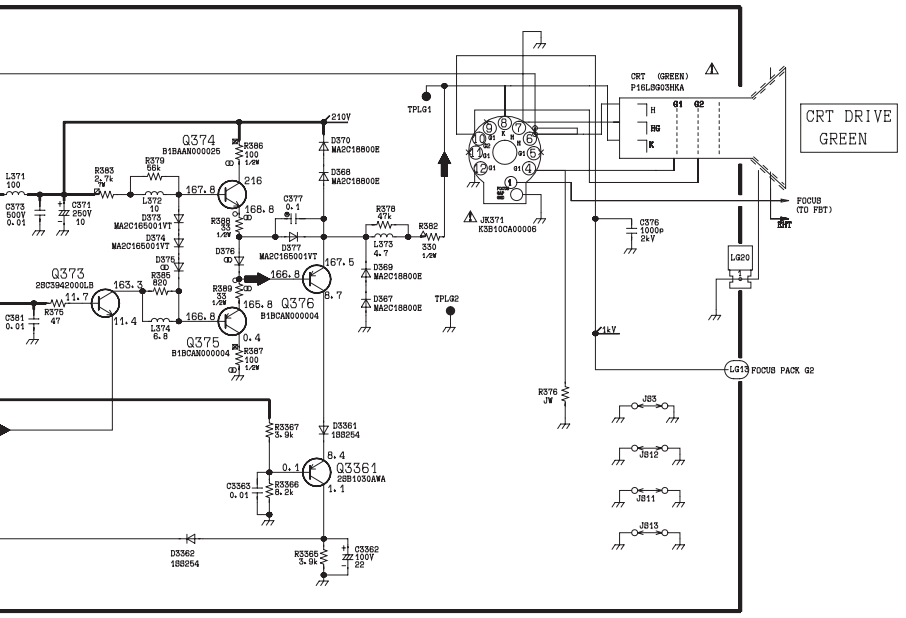

H-BOARD TNPA1970AP
AV4
Pr
Pb
Y
R
L
V
JSH1
JSH2
C3420
560p
C3422
560p
L3408
JW
L3407
JW
C3430
16V
0.1
D3410
MA3X152K0L
DAN212K
RL3401
K6B2CFA00015
LOADER IIC_SW
Q3402
2SD0601A0L
B1ABCC000004
R3421
1k
R3422
47k
H
SER
SDA
SCL
AV4R
AV4L
AV4V
AV4PR
AV4PB
AV4Y
SW4
AV2PR
AV2PB
AV2Y
SW1
H2
H1
TO
A-BOARD
(A11)
TO
A-BOARD
(A10)
L IN
YUV JUDGE
Pb IN
Y IN
VIDEO IN
R IN
L IN
Pb IN
Y IN
YUV JUDGE
VIDEO IN
Pr IN
Y IN
Pb IN
Pr IN
Y IN
Pb IN
AV2
AV4
AV4
AV2

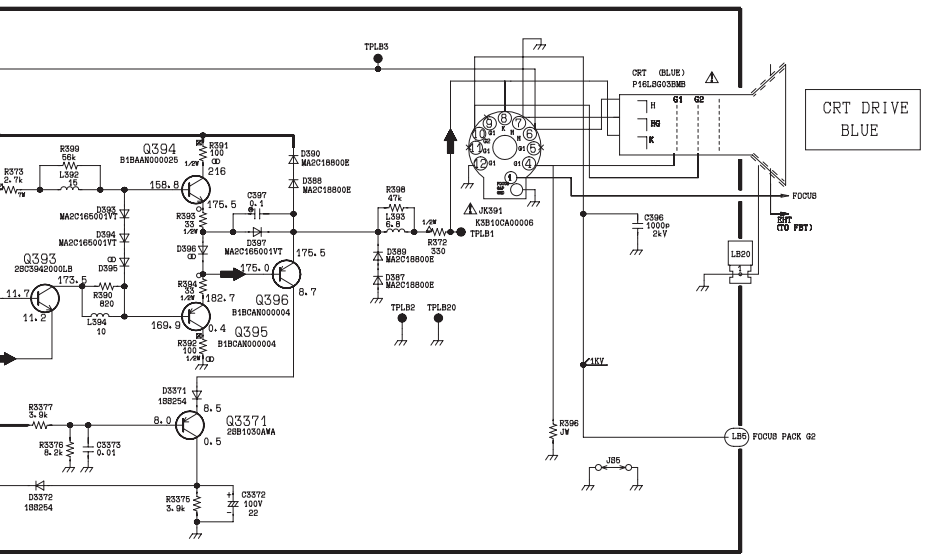
5 6 7

14.12. LR, LG and LB-Board Schematic Diagram



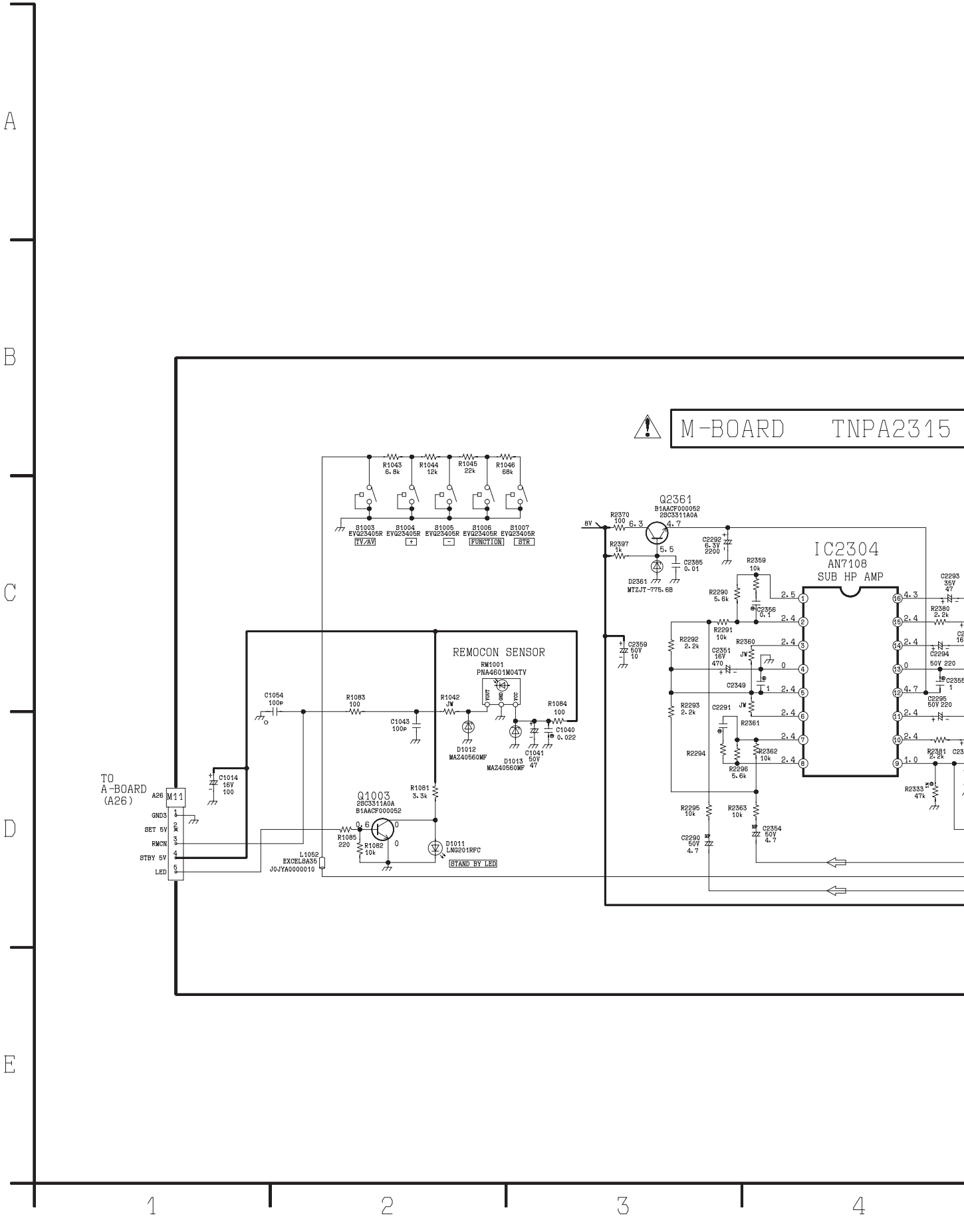

CRT DRIVE
RED
CRT (RED)
P16LBG05RJA
Q354
B1BAAN000025
Q353
2SC3942000LB
Q356
B1BCAN000004
Q355
B1BCAN000004
Q3351
2SB1030AWA
JK351
K3B10CA00006
TPLR1
TPLR2
FOCUS (TO FBT)
EHT
FOCUS PACK G2
JB1

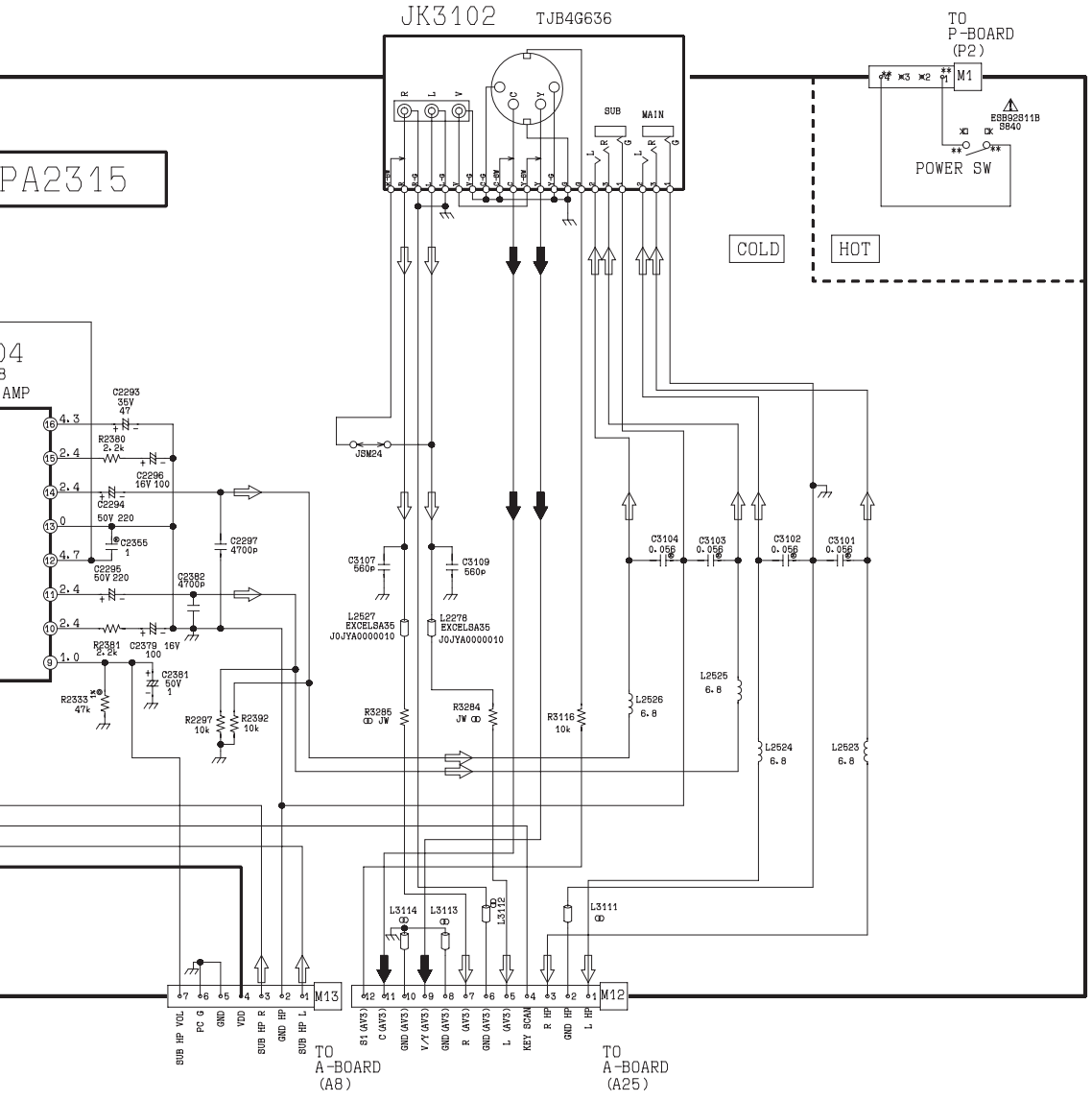

CRT DRIVE
GREEN
CRT (GREEN)
P16LBG03HKA
Q374
B1BAAN000025
Q373
2SC3942000LB
Q376
B1BCAN000004
Q375
B1BCAN000004
Q3361
2SB1030AWA
JK371
K3B10CA00006
TPLG1
TPLG2
FOCUS
(TO FBT)
FOCUS PACK G2
JB3
JB12
JB11
JB13


CRT DRIVE
BLUE
CRT (BLUE)
P16LBG03BMB
Q394
B1BAAN000025
Q393
2SC3942000LB
Q396
B1BCAN000004
Q395
B1BCAN000004
Q3371
2SB1030AWA
JK391
K3B10CA00006
TPLB3
TPLB1
TPLB2
TPLB20
FOCUS
(TO FBT)
FOCUS PACK G2
JB5

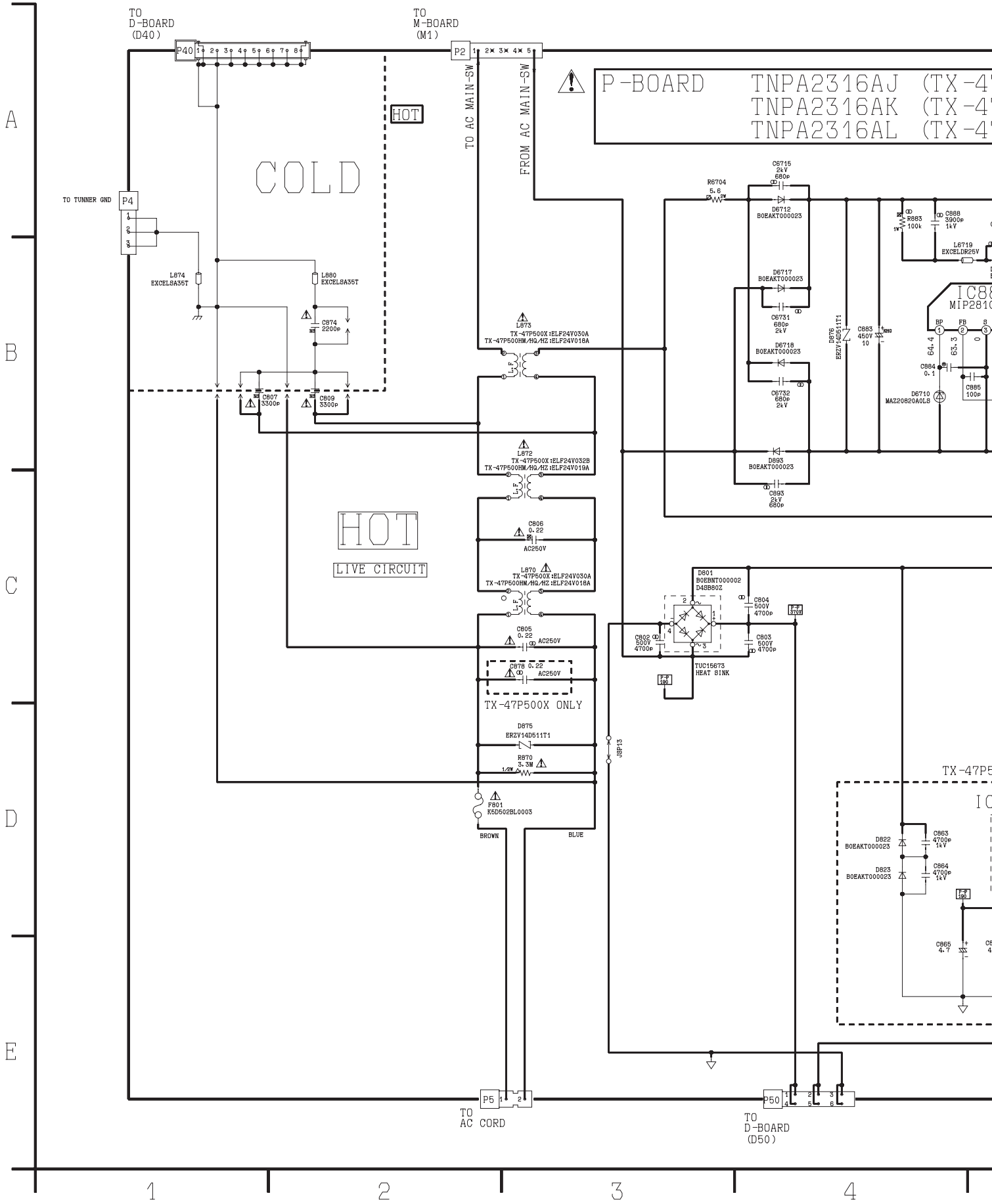
5 6 7 8 9

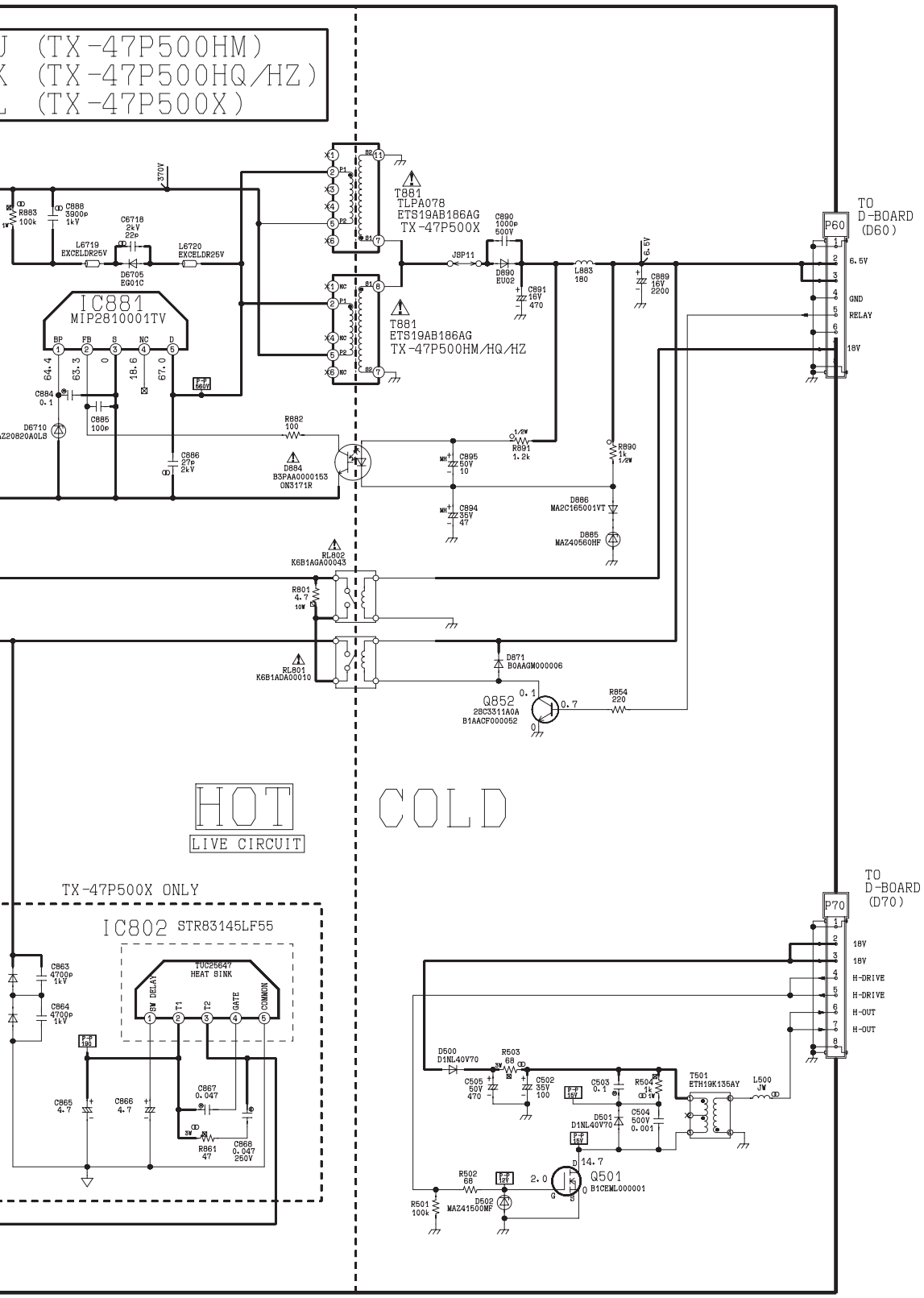
14.13. M-Board Schematic Diagram



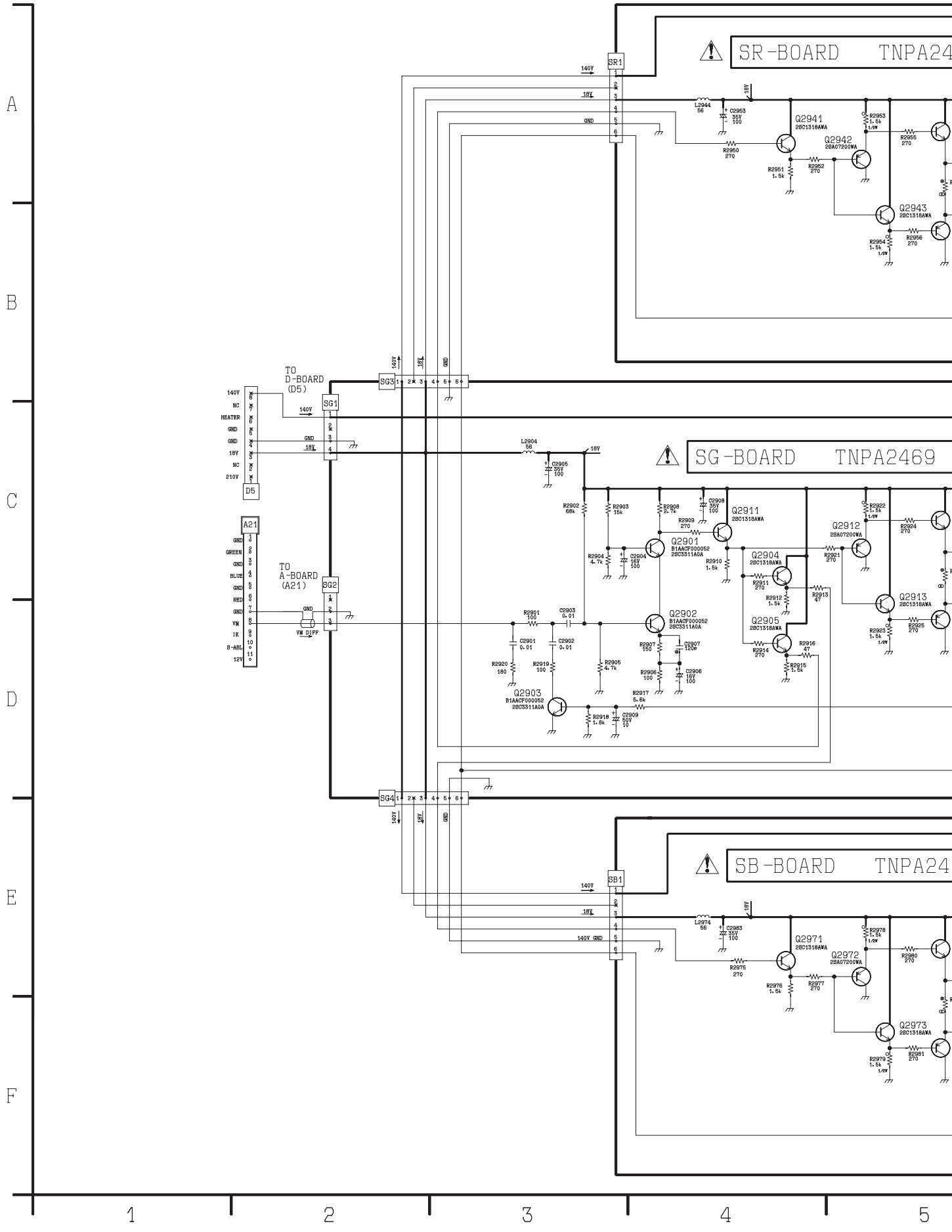

JK3102
TJB4G636
TO
P-BOARD
(P2)
M1
POWER SW
COLD
HOT
SUB
MAIN
PA2315
AMP
JBM24
C2293
35V
47
R2380
2.2k
C2296
16V 100
C2294
50V 220
C2355
1
C2295
50V 220
C2297
4700p
C2382
4700p
R2381
2.2k
C2379 16V
100
C2381
50V
1
R2333
47k
R2297
10k
R2392
10k
C3107
560p
C3109
560p
L2527
EXCELSA35
J0JYA0000010
L2278
EXCELSA35
J0JYA0000010
R3285
JW
R3284
JW
R3116
10k
C3104
0.056
C3103
0.056
C3102
0.056
C3101
0.056
L2526
6.8
L2525
6.8
L2524
6.8
L2523
6.8
L3114
L3113
L3112
L3111
M13
M12
SUB HP VOL
PC G
GND
VDD
SUB HP R
GND HP
SUB HP L
S1 (AV3)
C (AV3)
GND (AV3)
V,Y (AV3)
GND (AV3)
R (AV3)
GND (AV3)
L (AV3)
KEY SCAN
R HP
GND HP
L HP
TO
A-BOARD
(A8)
TO
A-BOARD
(A25)

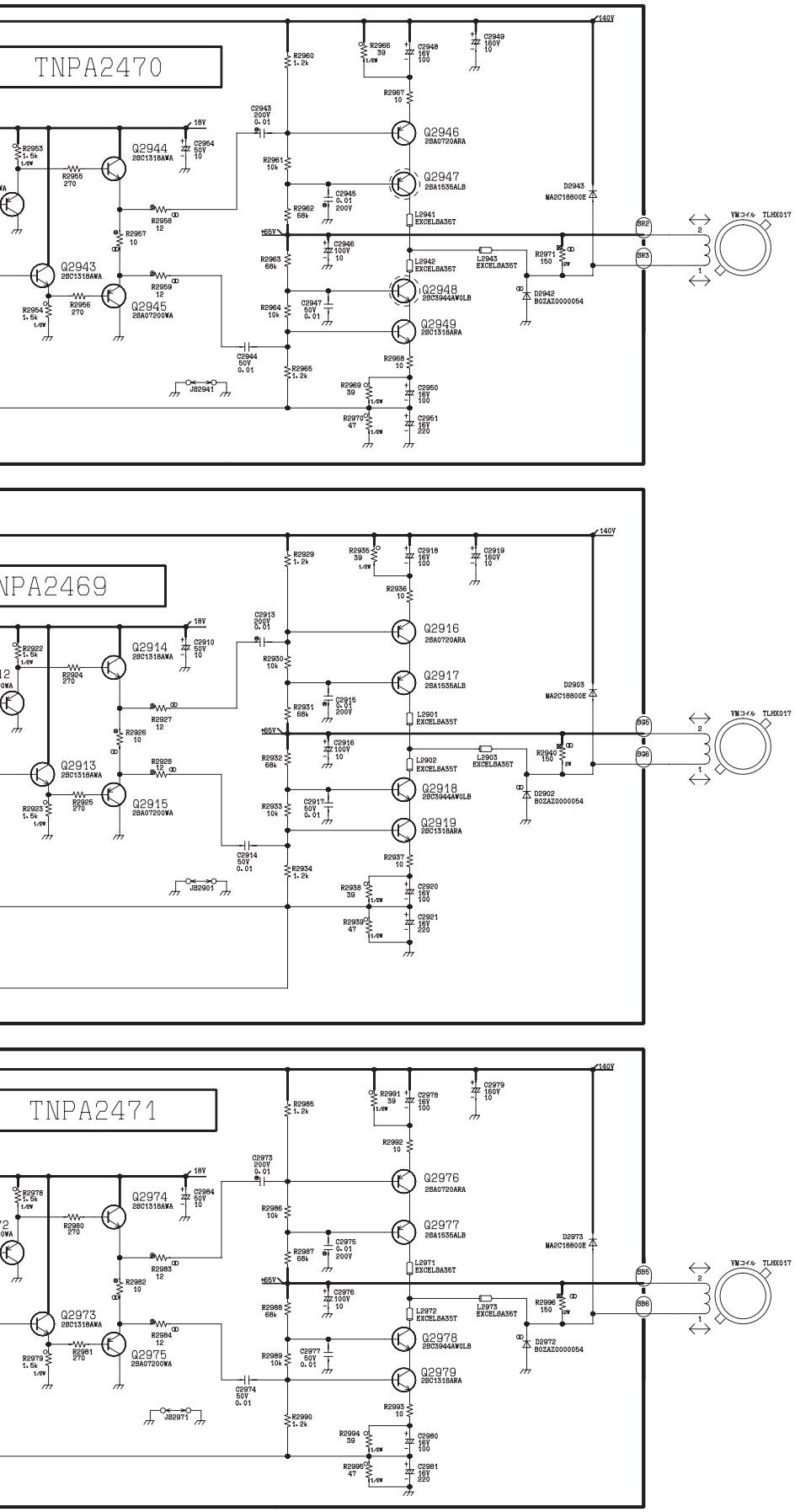
14.14. P-Board Schematic Diagram




J (TX-47P500HM)
K (TX-47P500HQ/HZ)
L (TX-47P500X)
T881
TLPA078
ETS19AB186AG
TX-47P500X
T881
ETS19AB186AG
TX-47P500HM/HQ/HZ
IC881
MIP2810001TV
TO
D-BOARD
(D60)
P60
6.5V
GND
RELAY
18V
HOT
LIVE CIRCUIT
COLD
TX-47P500X ONLY
IC802 STR83145LF55
TO
D-BOARD
(D70)
P70
18V
18V
H-DRIVE
H-DRIVE
H-OUT
H-OUT

14.15. SR, SG and SB-Board Schematic Diagram



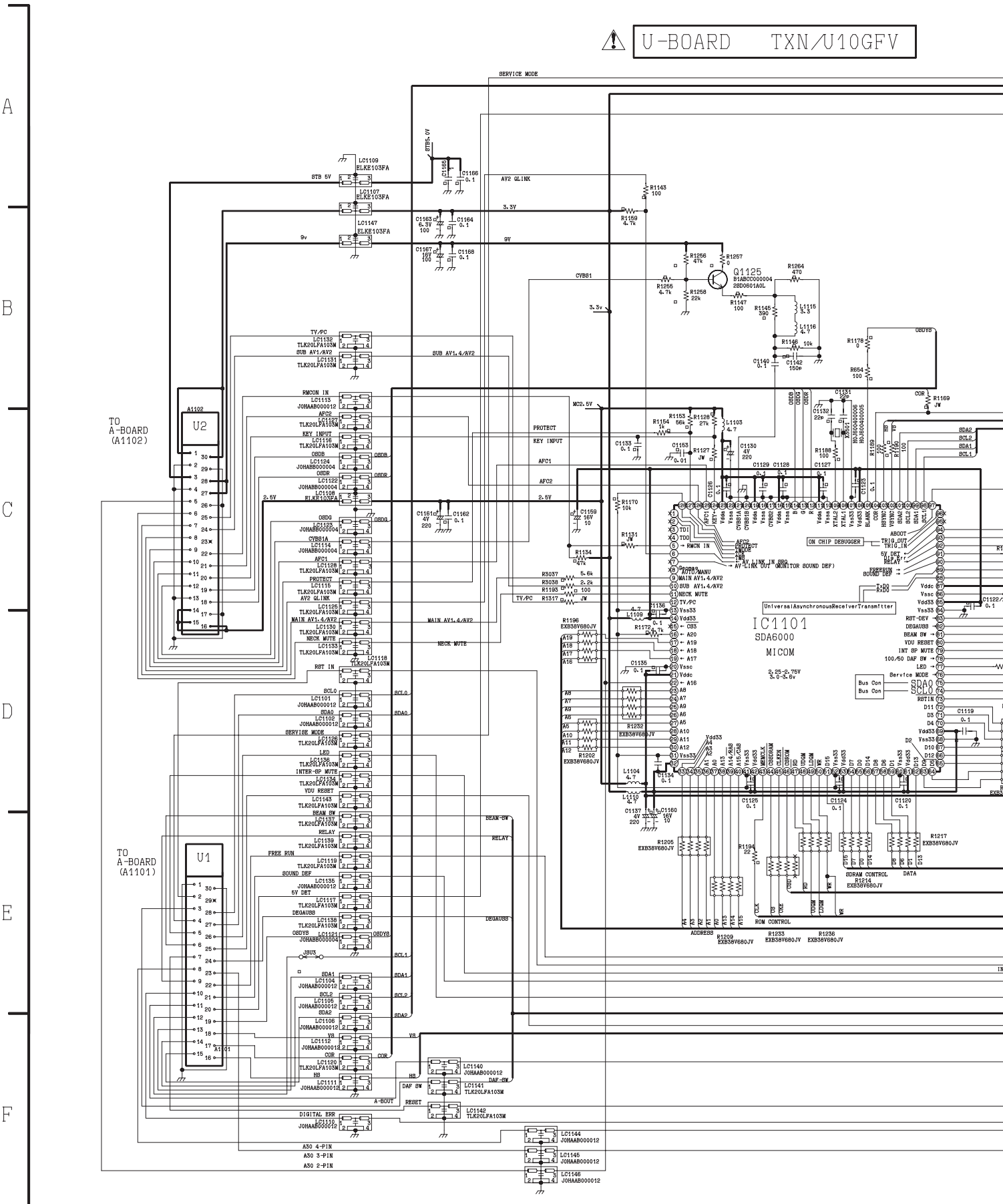

TNPA2470
140V
18V
+65V
R2960 1.2k
R2966 39 1/2W
C2948 16V 100
C2949 160V 10
R2967 10
C2943 200V 0.01
Q2946 2SA0720ARA
Q2944 2SC1318AWA
C2954 50V 10
R2953 1.5k 1/2W
R2955 270
R2961 10k
Q2947 2SA1535ALB
C2945 0.01 200V
R2962 68k
L2941 EXCELSA35T
D2943 MA2C18800E
BR2
BR3
VMコイル TLHX017
R2958 12
R2957 10
C2946 100V 10
R2963 68k
L2942 EXCELSA35T
L2943 EXCELSA35T
R2971 150 2W
Q2943 2SC1318AWA
R2959 12
Q2948 2SC3944AW0LB
D2942 B0ZAZ0000054
R2954 1.5k 1/2W
R2956 270
Q2945 2SA07200WA
R2964 10k
C2947 50V 0.01
Q2949 2SC1318ARA
C2944 50V 0.01
R2968 10
JS2941
R2965 1.2k
R2969 39 1/2W
C2950 16V 100
R2970 47 1/2W
C2951 16V 220

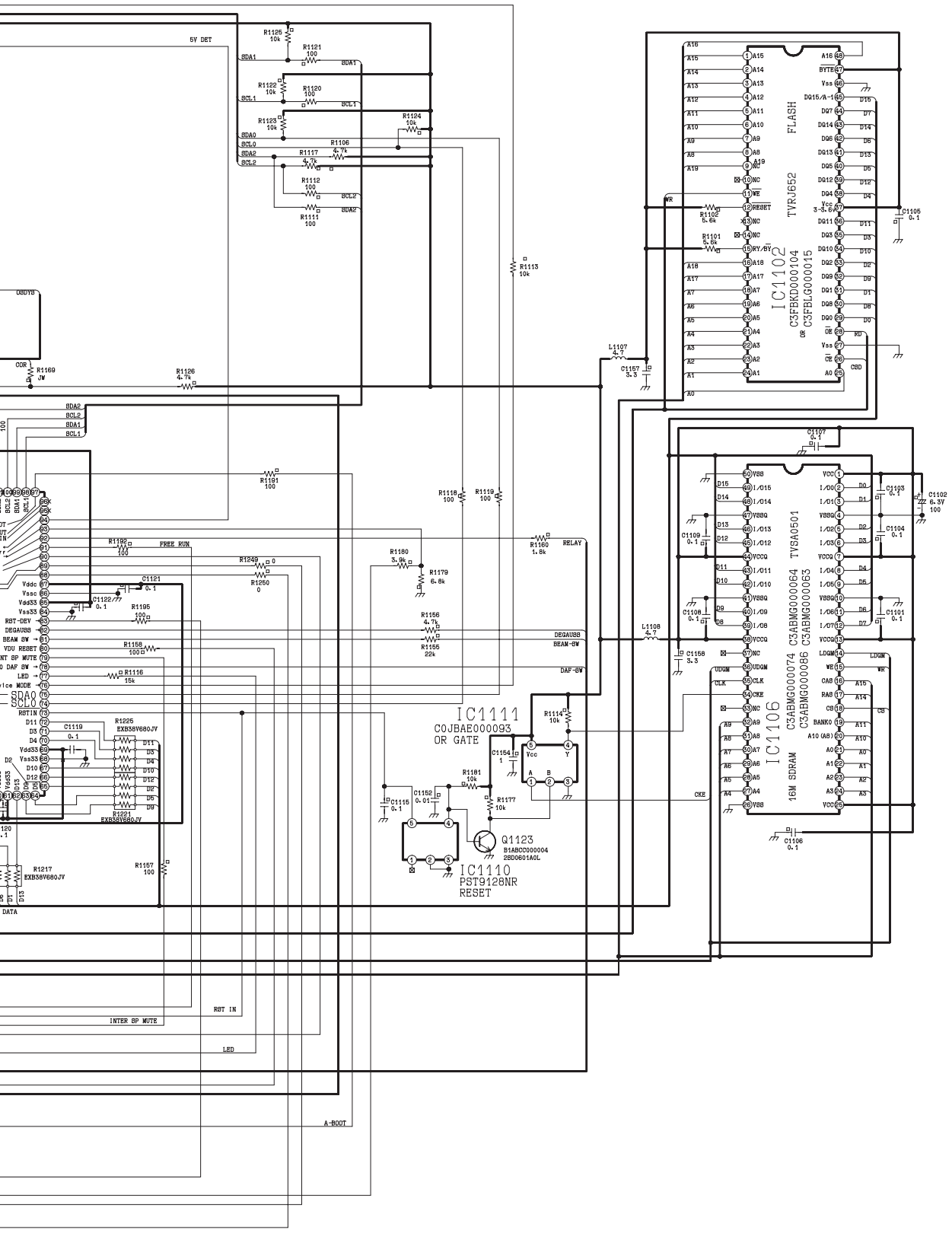
NPA2469
140V
18V
+65V
R2929 1.2k
R2935 39 1/2W
C2918 16V 100
C2919 160V 10
R2936 10
C2913 200V 0.01
Q2916 2SA0720ARA
Q2914 2SC1318AWA
C2910 50V 10
R2922 1.5k 1/2W
R2924 270
R2930 10k
Q2917 2SA1535ALB
D2903 MA2C18800E
C2915 0.01 200V
R2931 68k
L2901 EXCELSA35T
BR6
BR6
VMコイル TLHX017
R2927 12
R2926 10
C2916 100V 10
R2932 68k
L2902 EXCELSA35T
L2903 EXCELSA35T
R2940 150 2W
Q2913 2SC1318AWA
R2928 10
Q2918 2SC3944AW0LB
D2902 B0ZAZ0000054
R2923 1.5k 1/2W
R2925 270
Q2915 2SA07200WA
R2933 10k
C2917 50V 0.01
Q2919 2SC1318ARA
C2914 50V 0.01
R2937 10
JS2901
R2934 1.2k
R2938 39 1/2W
C2920 16V 100
R2939 47 1/2W
C2921 16V 220

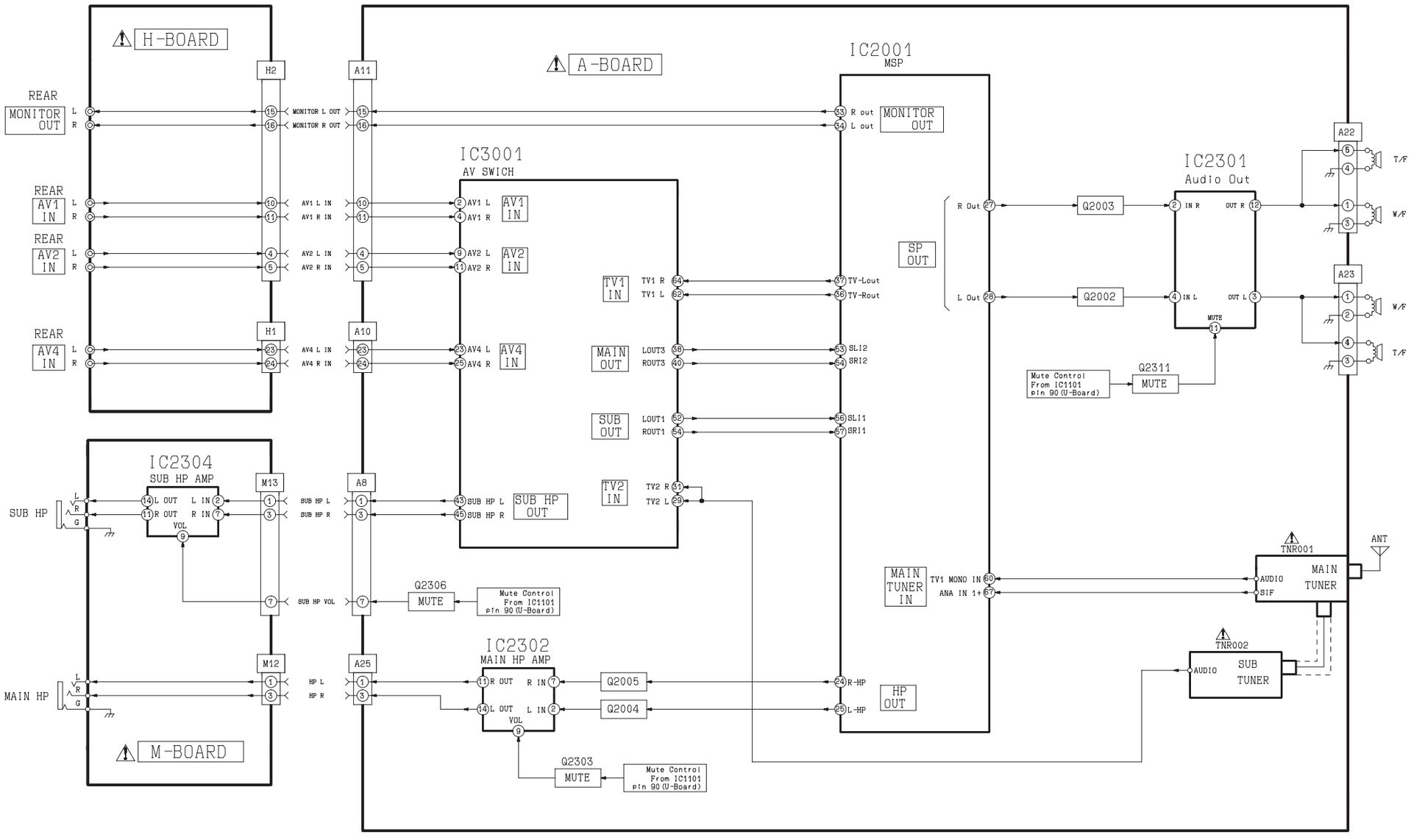
TNPA2471
140V
18V
+65V
R2985 1.2k
R2991 39 1/2W
C2978 16V 100
C2979 160V 10
R2992 10
C2973 200V 0.01
Q2976 2SA0720ARA
Q2974 2SC1318AWA
C2984 50V 10
R2978 1.5k 1/2W
R2980 270
R2986 10k
Q2977 2SA1535ALB
D2973 MA2C18800E
C2975 0.01 200V
R2987 68k
L2971 EXCELSA35T
BR6
BR6
VMコイル TLHX017
R2983 12
R2982 10
C2976 100V 10
R2988 68k
L2972 EXCELSA35T
L2973 EXCELSA35T
R2996 150 2W
Q2973 2SC1318AWA
R2984 12
Q2978 2SC3944AW0LB
D2972 B0ZAZ0000054
R2979 1.5k 1/2W
R2981 270
Q2975 2SA07200WA
R2989 10k
C2977 50V 0.01
Q2979 2SC1318ARA
C2974 50V 0.01
R2993 10
JS2971
R2990 1.2k
R2994 39 1/2W
C2980 16V 100
R2995 47 1/2W
C2981 16V 220

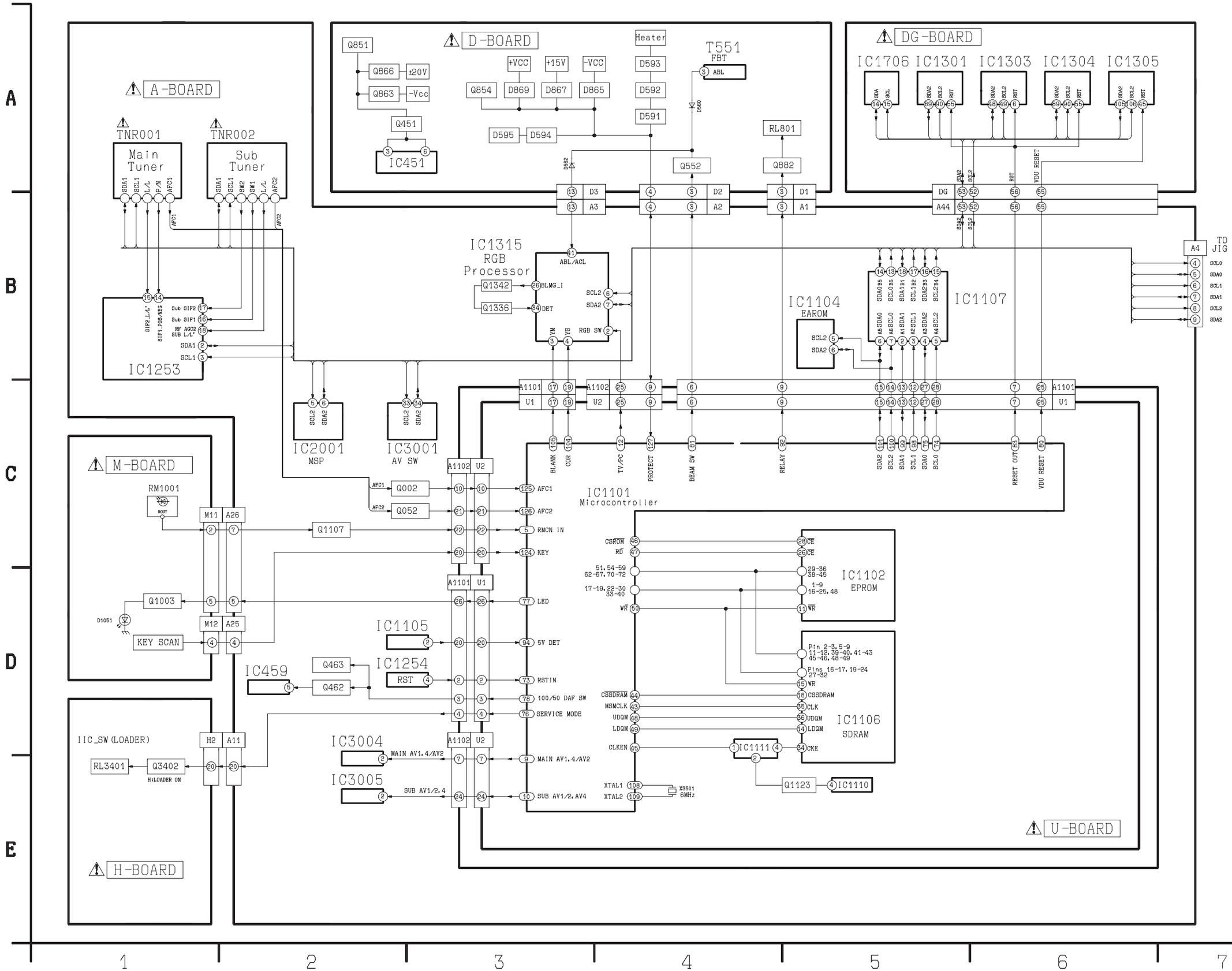
5 6 7 8 9

14.16. U-Board Schematic Diagram




5V DET
SDA1
SCL1
SDA0
SCL0
SDA2
SCL2
R1125 10k
R1121 100
R1122 10k
R1120 100
R1123 10k
R1124 10k
R1106 4.7k
R1117 4.7k
R1112 100
R1111 100
R1113 10k
R1126 4.7k
R1191 100
R1118 100
R1119 100
R1160 1.8k
RELAY
R1192 100
FREE RUN
R1249
R1260 0
R1180 3.9k
R1179 6.8k
R1166 4.7k
R1165 22k
DEGAUSS
BEAM-SW
DAF-SW
R1158 100
R1116 15k
IC1111
C0JBAE000093
OR GATE
R1114 10k
C1154 1
C1119 0.1
R1225 EXB38V680JV
R1221 EXB38V680JV
R1181 10k
R1177 10k
C1115 0.1
C1152 0.01
Q1123
B1ABCD000004
2BD0601A0L
IC1110
PST9128NR
RESET
R1217 EXB38V680JV
R1157 100
DATA
RST IN
INTER BP MUTE
LED
A-BOOT
IC1102
C3FBKD000104
C3FBLG000015
FLASH
TVRJ652
R1102 5.6k
R1101 5.6k
C1105 0.1
L1107 4.7
C1157 3.3
IC1106
C3ABMG000074
C3ABMG000086
C3ABMG000064
C3ABMG000063
TVSA0501
16M SDRAM
C1107 0.1
C1103 0.1
C1102 6.3V 100
C1104 0.1
C1109 0.1
C1108 0.1
C1101 0.1
L1108 4.7
C1158 3.3
C1106 0.1
CKE


H-BOARD
A-BOARD
M-BOARD
H2
A11
H1
A10
M13
A8
M12
A25
REAR MONITOR OUT
REAR AV1 IN
REAR AV2 IN
REAR AV4 IN
MONITOR L OUT
MONITOR R OUT
AV1 L IN
AV1 R IN
AV2 L IN
AV2 R IN
AV4 L IN
AV4 R IN
IC3001
AV SWICH
AV1 L
AV1 R
AV2 L
AV2 R
AV4 L
AV4 R
TV1 IN
TV1 R
TV1 L
MAIN OUT
LOUT3
ROUT3
SUB OUT
LOUT1
ROUT1
TV2 IN
TV2 R
TV2 L
SUB HP OUT
SUB HP L
SUB HP R
IC2304
SUB HP AMP
SUB HP
L OUT
R OUT
L IN
R IN
VOL
SUB HP VOL
Q2306
MUTE
Mute Control From IC1101 pin 90 (U-Board)
IC2302
MAIN HP AMP
MAIN HP
HP L
HP R
Q2005
Q2004
Q2303
IC2001
MSP
R out
L out
MONITOR OUT
SP OUT
R Out
L Out
Q2003
Q2002
Q2311
MUTE
IC2301
Audio Out
IN R
OUT R
IN L
OUT L
A22
A23
T/F
W/F
MAIN TUNER IN
TV1 MONO IN
ANA IN 1+
TNR001
MAIN TUNER
AUDIO
SIF
ANT
TNR002
SUB TUNER
HP OUT
R-HP
L-HP


A-BOARD
TNR001
Main Tuner
TNR002
Sub Tuner
D-BOARD
Q851
Q866
±20V
Q863
-Vcc
Q451
IC451
Q854
D869
D867
D865
D595
D594
+VCC
+15V
-VCC
Heater
D593
D592
D591
T551
FBT
ABL
D660
D662
Q552
RL801
Q882
DG-BOARD
IC1706
IC1301
IC1303
IC1304
IC1305
SDA
SCL
SDA2
SCL2
RST
VDU RESET
D3
D2
D1
A3
A2
A1
DG
A44
IC1315
RGB Processor
ABL/ACL
Q1342
Q1336
BLMG_I
DET
SCL2
SDA2
YM
YS
RGB SW
IC1104
EAROM
IC1107
A4
TO JIG
SCL0
SDA0
SCL1
SDA1
SCL2
SDA2
IC1253
Sub SIF2
Sub SIF1
RF AGC2
SUB L/L'
SDA1
SCL1
IC2001
MSP
IC3001
AV SW
A1101
U1
A1102
U2
BLANK
COR
TV/PC
PROTECT
BEAM SW
RELAY
RESET OUT
VDU RESET
M-BOARD
RM1001
ROUT
M11
A26
M12
A25
Q1107
Q002
Q052
AFC1
AFC2
RMCN IN
KEY
Q1003
D1051
KEY SCAN
LED
IC1105
5V DET
IC1254
RST
RSTIN
IC459
Q463
Q462
100/50 DAF SW
SERVICE MODE
IIC_SW (LOADER)
H2
A11
RL3401
Q3402
H:LOADER ON
IC3004
MAIN AV1,4/AV2
IC3005
SUB AV1/2,4
IC1101
Microcontroller
CSROM
RD
WR
CSSDRAM
MSMCLK
UDQM
LDQM
CLKEN
XTAL1
XTAL2
X3501 6MHz
IC1102
EPROM
IC1106
SDRAM
IC1111
Q1123
IC1110
H-BOARD
U-BOARD

MAIN SW
S840
M-BOARD
M1
P2
TO AC MAIN-SW
FROM AC MAIN-SW
P-BOARD
HOT
L873
L872
C806
L870
C805
D875
R870
F801
AC CORD
BROWN
BLUE
P5
D6712
D6717
D6718
D893
D876
370V
D6705
IC881
SWITCHING REGULATOR (STAND-BY)
BP
FB
S
NC
D
D6710
T881
D890
6.5V
ERROR DET
D884
D886
D885
RL802
RL801
D871
TX-47P500X ONLY
IC802
SW DELAY
T1
T2
GATE
COMMON
D801
Q852
RELAY ON/OFF
P60
6.5V
RELAY
12V
18V
P70
P50
D50
HOT
COLD
D-BOARD
TX-47P500X ONLY
T801
D860
IC7001
CONVERGENCE CORRECT
-18V
D828
18V
+140V
D829
D831
15V
D851
IC810
AVR 12V
140V
IC801
SWITCHING REGULATOR
Vin
START
REG
T.S.D
O.V.P
DRV. REG
=8.3V
DRIVE
LATCH
O.S.C
Rg2
Rg1
Drain
Source
OCP/FB
GND
D805
D819
D821
Q805
D816
D815
D820
D809
D811
ERROR DET
D807
IC808
ERROR DET
Q849
140V
O.V.P.
DET
140v
D869
PROTECT

D-BOARD

D60
6.5V
RELAY
12V

D70
18V

RELAY
From IC1101
pin 92 (U-Board)

IC9601
D870
Q854
PROTECTOR
D894
D2322

IC7002
CONVERGENCE CORRECT
-18V
18V
15V
12V
140V
PROTECT

IC451
VERTICAL OUT

Q551
H DRIVE
T551
D510
EHT
FO
ABL
D519
HEATER
+140V
+210V
+18V
D5

D2
15V
SOUND 35V
BT 30V
PROTECT

D3
V+VCC-
V+VCC-
V-VCC-
V-VCC-
9V
9V

D1
12V
STBY 6.5V

A-BOARD

A2
15V
SOUND 35V
BT 30V
PROTECT
V+VCC-
V-VCC-
9V

A3
12V
STBY 6.5V

A1
12V

IC2301
AUDIO AMP

IC7703
COMPARATOR

D2316

IC1315
RGB PROCESSOR

IC9351
AVR 9V

IC7101
5V

IC7108
12V

IC7109
-12V

IC7106
AMP

IC7105
AMP

IC2708
AVR 9V

IC051
AVR 5V

IC052
AVR 5V

TNR002
TUNER
BV
+B
BTL

TNR001
TUNER
BV
+B
BTL

IC501

IC459

IC7702
D/A CONV.

IC3001
AV SW

IC3005
SW

IC3004
SW

IC7104
DIGITAL CONVERGENCE

IC7102
EEPROM

IC7121
D/A CONV.

IC7107
DIGTAL CONVERGENCE CORRECTION

IC7103
INVERTER

IC2705
AVR 3.3V

IC2709
AVR 3.3V

IC1104

IC1105

IC1107

IC3003
VCA

IC1107
SW

IC1253
D/A

IC2706
AVR 5V

IC2710
AVR 3.3V

IC1109

IC2707
AVR 8V

Q2302

IC2302
HP AMP

MSP
IC2001

IC1108
AVR 5V

IC1254
RESET

IC1251
AVR 3.3V

IC1252
AVR 2.5V

A10
9V

A21
12V

A44
9V
D3.3V
D3.3V
D3.3V
5V
5V
D3.3V

A8
8V

A26
STBY 5V

A1102
9V
9V
ST5.5V
3.3V
3.3V
PROTECT
2.5V
2.5V
2.5V